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Via Electronic Mail

May 23, 2016

Ms. Anna Krasko
U.S. Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code OSRR07-1
Boston, MA 02109-3912

Re: Interim Final RI/FS Work Plan – Comment Response
Administrative Settlement Agreement and Order on Consent (OU 2)
L&RR Superfund Site, North Smithfield, RI

Dear Ms. Krasko:

Woodard & Curran has reviewed comments from the U.S. Environmental Protection Agency (EPA) and the Rhode Island Department of Environmental Management (RIDEM) dated April 8, 2016 regarding the February 25, 2016 Interim Final Remedial Investigation/Feasibility (RI/FS) Work Plan draft submittal for Operable Unit (OU 2) of the Landfill & Resource Recovery (L&RR) Superfund Site (the "Site") in North Smithfield, Rhode Island. In accordance with Appendix D to the Administrative Settlement Agreement and Order on Consent (AOC; effective date August 17, 2015), the February 25, 2016 Work Plan submittal also included a Site Management Plan (SMP), Health and Safety Plan (HSP), Community Relations Support Plan (CRSP), and Sampling and Analysis Plan (SAP), itself comprised of the Quality Assurance Project Plan (QAPP) and Field Sampling Plan (FSP).

Per your April 8, 2016 transmittal, this comment response letter is being submitted at the Request of the Respondents concurrently with updated interim final versions of the RI/FS Work Plan which incorporate the conditions specified in Attachment A. Responses to recommendations in Attachment B from EPA and RIDEM are also provided. Consistent with previous comment responses, each of the comments is re-printed below in italicized format followed by our response.

In addition, since submitting the February 25, 2016 interim final version of the RI/FS Work Plan we have identified select plan components that require additional clarifications or modification. These are included for your review and approval at the end of this letter.

EPA REVIEW COMMENTS ON SAP, INCLUDING QAPP AND FSP (ATTACHMENT A)

Comment 1:

> ***General:*** *During the conference call on February 4, 2016, AECOM noted (and the Woodard & Curran team seemed to acknowledge) that the PALs listed in the QAPP should be based on EPA Regional Screening Levels (RSLs). That comment does not appear to have been addressed in the interim final version of the SAP/QAPP; for example, for groundwater VOC PALs, MCLs are used in most or all cases. To address that comment, PALs for all media should be revised, based on current RSLs, Natural Recommended Water Quality Criteria, and other appropriate benchmarks, and those revised PALs should then be compared to the laboratory reporting limits (RLs) to confirm that, for contaminants that are reasonably comprehensive assessment of risks. (Note that RSLs are updated regularly by EPA, so the reference to May*

2010 RSLs is outdated). If RSLs for resident soil and tapwater are used, the tables that would require revision and resubmittal at a minimum would include Tables 6-1, 6-3, 6-4, 6-14, 6-19, 6-22, 6-24, 6-30, and 6-36.

Response:

Project Action Limits (PALs) have been revised and are now based on current Regional Screening Levels (RSLs) (dated November, 2015) for multiple media-types as well as additional benchmarks consistent with Applicable or Relevant and Appropriate Requirements (ARARs) as follows:

Media	Applicable Benchmarks	PAL Rationale
Groundwater	Maximum Contaminant Levels (MCLs), RSLs, RIDEM Remediation Regulations (Method 1 GAA/GA Groundwater Objectives), Health Advisory for 1,4-dioxane only	Uses most conservative value for each constituent
Surface Water	AWQC, Health Advisory for 1,4-dioxane only	AWQC are consistent with RIDEM Water Quality Regulations
Soil	RSLs, RIDEM Remediation Regulations (Method 1 Direct Exposure Criteria)	Uses most conservative value for each constituent
Sediment	Region 3 Biological Technical Assistance Group (BTAG) Screening Benchmarks, Region 5 Ecological Screening Levels, Ontario Canada Ministry of Environment Sediment Concentrations, site-specific sediment RSLs (calculated using the EPA preliminary remediation goal (PRG) calculator)	Uses most conservative value for each constituent

Site-specific sediment RSLs were developed using EPA's preliminary remediation goal (PRG) calculator (https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search) in place of using soil RSLs for sediment media. Soil RSLs are intended to be protective of residential soil exposures and incorporate different exposure assumptions than those anticipated to apply in recreational settings where sediments may only be occasionally contacted. The justification for considering limited recreational exposure to sediments adjacent to the L&RR site are based on an assumed low desirability to pursue recreational activities (that is, wading, fishing, etc.) in adjacent wetlands. Default exposure input parameters were used to generate sediment RSLs, with the exception of the exposure frequency and time which assumed that a recreator would be exposed to sediment 1-day per week, for a year (52 weeks), up to 2-hours per day. Noncancer RSLs were based on a target hazard quotient of 0.1; cancer-based RSLs were based on a target cancer risk of 1E-06. RSL input parameters and calculations are provided as Attachment 1.

Section 6 of the SAP and Tables 6-1, 6-3, 6-4, 6-14, 6-17, 6-19, 6-22, 6-23, 6-24, 6-25, 6-30, 6-31, 6-32, 6-33, 6-34, and 6-36 have been updated to reflect the revised PALs. These revisions have been included in the Addendum to the Interim Final SAP.

Table 6-40 has been updated to summarize constituents that do not meet preferred sensitivity quality objectives and the associated rationale for method selection and has been included in the SAP Addendum.

Comment 2:

General. *In accordance with good practice, references in the text and tables to the reporting of non-detects at MDLs should be removed. Similarly, MDLs should not be used when judging whether a method is capable of reaching a PAL. As a practical matter, data users may use flagged detections between the MDL and the RL and may consider the MDL when making judgments regarding non-detects; however, for reporting and quantitative use, non-detects must be reported at the RL.*

Response:

This comment is acknowledged and comments clarifying reporting non-detect results to the Reporting Limit (RL) have been incorporated into the SAP Addendum.

Comment 3:

Sections 18, 19, and 21. *For consistency, please list the most recent version of each National Functional Guideline in these sections of the SAP and use those versions for data validation.*

Response:

This comment is acknowledged and updated versions of the National Functional Guidelines have been incorporated into the revised version of the SAP, including the QAPP and FSP.

In addition, data validation levels have been modified following review of the nomenclature previously used in earlier version of the QAPP that suggested a more detailed review than was actually based on data quality objectives. This revision includes revising the Modified Tier 1 Plus components to recommend that laboratory internal standards and instrument calibration are no longer required. Refer to Attachment 2, Table A-2 for a summary of validation levels and proposed modifications. These revisions have also been incorporated into QAPP Table 19-1.

One notable revision to Table 19-1 involves a new sub-heading for *Bedrock Drilling Criteria and Steps* and clarifies that groundwater samples collected during packer sampling events for each analyte outlined in the RI/FS Work Plan will be validated using a Tier I procedure. This revision is warranted based on the end use of the data as a screening tool to evaluate bedrock groundwater quality. As a result, results from the contracted laboratory will be expedited during drilling to facilitate real-time decision-making and thereby limiting the potential for data validation. Following either well or multi-level system construction in a borehole, groundwater data collected during low flow purging will be validated using either a Tier 2 (for 1,4-dioxane) or a Modified Tier 1 Plus for additional analytes.

Section 19 of the SAP including, Table 19-1, have also been updated to include an additional external data validation contractor, Environmental Standards, Inc., that may be used during the RI in addition to Data Check, Inc. A Statement of Qualifications for Environmental Standards, Inc. has been in included in Appendix G of the revised version of the SAP.

EPA REVIEW COMMENTS ON INTERIM FINAL RI/FS WORK PLAN (ATTACHMENT B)

Comment 1:

Section 4.4.4.3, Sampling and Analysis, p. 4-8. *It is recommended that the use of Teflon tubing instead of HDPE be given serious consideration, at least in wells where contaminant concentrations are expected to be low and where results at low ppb concentrations will be relevant to project objectives. Teflon is more inert and less likely to adsorb contaminants.*

Response:

The RI/FS Work Plan has been revised to include the use of Teflon tubing during monitoring well sampling.

Comment 2:

Section 4.4.4.3, Sampling and Analysis, p. 4-9. *The last paragraph in this Section states that if additional laboratory analyses are proposed to support evaluation of biodegradation processes, a memorandum outlining the analyses and locations will be generated. However, there is no mention of the SAP being updated or amended to incorporate the design, rationale, and details of the additional sampling and analysis program. If the SAP is not updated (as stated in the plan, to avoid delays in the sampling), the appropriateness of the additions to the program should nonetheless be confirmed. For example, Section 4.4.4.3, paragraph 1 indicates the wells will be sampled no fewer than seven days following development, and later sections indicate the collection of samples for dissolved hydrogen may be required. Direction from one laboratory that performs dissolved hydrogen analyses indicates that sampling should be conducted no sooner than 90 days from installation (http://www181.pair.com/microsee/mirror/pdf/dissgas.pdf). Please confirm, when the additional sampling is being developed, that the approach will provide representative data for dissolved hydrogen and the other additional analytes.*

Response:

Woodard & Curran will enlist the services of a qualified laboratory specializing in analyses to support *in situ* biodegradation. As noted by the comment, we intend to provide a memorandum summarizing the proposed biodegradation evaluation program. An updated version of the SAP will not be provided, however, summary tables specifying laboratory reporting limits and internal quality control will be provided with the memorandum.

RIDEM REVIEW COMMENTS

Comment 1:

Section 4.4.2, Geophysical Resistivity Survey, p, 4-2. *Please be advised that a geophysical resistivity survey and a seismic survey was previously performed at the site. It is evident in the survey that contaminant distribution found at the site in some cases does not conform to that which would have been predicted by the groundwater contours due to the fact that there is a limited groundwater sampling network and history and as such the contours may not be accurate. Please consider this when devising the geophysical survey layout.*

The geophysical survey results, (maps depicting conductivity zones, bedrock fracture information, etc., both the current and previous survey, and the seismic survey as well) shall be

submitted to the regulatory agencies on a figure along with the proposed locations of the monitoring wells for review and approval. Please modify the Work Plan to reflect all of the above concerns.

February 25, 2016 Response:

A Resistivity Survey Scope of Work was provided to EPA and RIDEM on January 7, 2016. Comments were received from RIDEM thereafter and were addressed via email on January 15, 2016 and during a teleconference on January 21, 2016. The resistivity survey occurred between January 25 — 29, 2016 and included expansion of the initial scope in the northeast area to address RIDEM's concerns. Notice of survey completion was provided to EPA and RIDEM on January 29, 2016.

RIDEM Evaluation of Response to Comment

The requested information from the current survey has been provided in an updated submittal dated March 11, 2016. Based upon the results of the current survey, the historic geophysical surveys, and current and historic contaminate sampling results the following suggestions are made with respect to the proposed locations of borings:

Transect 1-B: Transect 1-B (overburden well cluster and bedrock borehole) will be moved approximately 175 feet toward the east.

Excerpt from EPA Comment #7: Based on interpreted low resistivity at approximately 500 feet along Line 5. This area may correspond with the interpreted bedrock valley shown on cross-section D-D'. An additional groundwater profile location is not proposed at this modified location due to the proximity of WL-2 conducted as part of the 2013 groundwater profiling event. The 2013 profile results, along with drilling observations and field screening, will be used to select overburden monitoring well screen intervals at Transect 1-B.

RIDEM Evaluation of Response to Comment

Along Geophysical Resistivity Line 5, there is a bedrock fracture, which also overlays the deepest part of the bedrock along this line (it should be noted that Line 3 results do not coincide with Line 5 at the intersect). This location appears to be 100 feet east of the original 1 B sample point. It is recommended that the location of this fracture and this deep part of the bedrock be confirmed, and consideration be given to locating 1 B over the fracture and this deep part of the bedrock.

Respondents Comment Response

Based on these recommendations and a review of the geophysical resistivity profiles in this area, the proposed bedrock and overburden investigation locations at Transect 1-B have been moved to be approximately 100 feet east of the original sample location to correspond with the deep bedrock surface as interpreted on the resistivity profiles.

Transect 1-E *(proposed groundwater profile location only; however, further investigation may be warranted based on analytical results) will be moved approximately 100 feet toward the northwest.*

Excerpt from EPA Comment #7: Based on interpreted low resistivity from approximately 400 to 600 feet along Line 1. The adjustment is proposed toward the northwest as opposed to the east-southeast near the power lines based on the steep slope adjacent to the power lines.

RIDEM Evaluation of Response to Comment

Based upon the resistivity results there may be a fracture zone to the east of the proposed location. In addition, a greater number of contaminates and higher concentrations of contaminates were observed in SW-8 (located to the east of the proposed location) compared to SW-7 which is to the west. Further, the previous resistivity survey showed higher conductivity values to the east of the proposed location. Although not discussed in the text, the current survey also depicts a low resistivity zone to the east of the proposed location. Based upon the current geophysical resistivity survey, there also appears to be a bedrock depression to the east of the proposed location. Finally, an eastern location is more in line with the photo lineament feature identified in Figure 2-3. The location proposed in Version 1 of the RI/FS Work Plan will address these concerns. In order to avoid the logistical problems associated with the slope issue for the original location, perhaps it would make sense to use the power line access road and install the well off the access road. An inspection of the road reveals that the road is useable and appears to have been recently used during the upgrade of the power lines. It should be noted that information provided in the Solar Farm Engineering Plans for this area reveals that the proposed well location will be subject to cut and fill operations and be surrounded by solar panels once the farm is built. Moving the well to a location off the access road may avoid potential problems associated with the solar array.

If coverage is also desired at the proposed location, then an additional sample can be collected from this location using either a standard well, or a Geoprobe (latter will be limited to shallow water, information presented in the current geophysical report, nearby well logs and previous groundwater elevation measurements suggest that groundwater can be found in this area above the bedrock, however bedrock is relatively shallow at approximately 50 feet below ground surface (bgs), thus limiting the Geoprobe depth to shallow groundwater). To avoid the solar array problems noted above, the well could also be installed using the access road and installed adjacent to the access road. Be advised that the geophysical information from Line 1 indicates that there is a fracture zone just to the west of the proposed location.

Respondents Comment Response

Based on these recommendations, the WaterlooAPS location at Transect 1-E has been moved further to the east. Refer to the revised location shown on Figure 4-1 of the RI/FS Work Plan.

Lineaments/BH14-1

Excerpt from EPA Comment #7: In addition, regarding the intent of intersecting lineaments, it should be noted that modelled results from Line 5 (west to east profile from MW-102 well cluster to Pound Hill Road) confirm alignment of existing borehole BH14-1 with the north-south trending photo lineament. No further adjustments to the investigation are proposed to intersect this lineament feature, and subsurface interpretations from BH14-1 and the resistivity survey will be applied across the borehole network during the evaluation of data obtained during the RI.

RIDEM Evaluation of Response to Comment

Geophysical Resistivity Line 5 overlays a portion of the depicted aerial photograph east west lineament feature. In the overlay area, there is only one-point fracture. In the area of BH 14-1, there is also a fracture (however, this location is north of the photo lineament feature depicted on the figure). It should be noted that Line 5, only has two-point fracture zones. Conversely other lines, such as Line 7 have fracture zones 500 feet in length. It should also be noted that there are extensive fracture zones depicted on Geophysical Resistivity Line 7 (total of 700 feet in length running east west). There are also extensive fracture zones on north-south running lines 2, 6 and 8. The limited number of fractures, and the absence of fracture zones on Line 5, as well as, the fractures observed on the other lines bring into question its alignment with the photo lineament feature.

Please confirm the north-south trending photo lineament (east of the site). Information presented in Figure 4-4 in the Phase 1 RI report suggests that the line may be further to the east by approximately 225 feet. The location of the east west photo lineament line in Figure 2-3, appears appropriate, (in the vicinity of the residential houses it might be moved slightly north). These adjustments might explain the fracture zone distribution observed in Geophysical Resistivity Lines 6 and 8. This may provide information with respect to the potential bedrock migration pathway, aid in the guidance for any well placement east of BH 14-1, as well as, whether this photo lineament features have been adequately investigated.

Based upon the location of the east west photo lineament Line as depicted in Figure 2-3, or the possible slight north adjustment, and the resistivity results, it does not appear that BH 14-1 is in line with this feature. It is recommended that an additional well east and south of BH14-1 be installed using information from the photo lineaments and the geophysical survey results.

Respondents Comment Response

During a teleconference with RIDEM on April 22, 2016 the location of lineaments in the vicinity of BH14-1 were reviewed. The discussion acknowledged potential interpretative discrepancies associated with transposing these photo lineaments from the 7.5-minute U.S. Geological Survey (USGS) quadrangle included in the OU 1 RI/FS to the current Geographic Information Science (GIS)-based figures included with the RI/FS Work Plan. The location of the north-south trending lineament has been shifted eastward as suggested.

In regard to an additional well east and south of BH14-1, resistivity profiles for Lines 5 through 8 were reviewed to select an alternate location for borehole T3-A. This discussion

concluded with relocation of this borehole 75-feet to the northeast on Lot 23 near the western property boundary with the row of condominiums and no additional drilling near BH14-1. On May 4, 2016, during a site walk led by Woodard & Curran and the property owner of Lot 23 to review proposed boring locations on this parcel, the owner expressed his preference that the revised T3-A location be moved approximately 125 feet to the northwest to the edge of the wooded area west of the row of condominiums. Review of this revised borehole location indicates alignment with the southern terminus of the adjusted north-south trending photo lineament which further supports investigation objectives.

To further support this revision, borehole geophysical interpretations and groundwater results from two rounds of packer sampling were reviewed. These sources confirmed that bedrock at BH14-1 was fractured (fracture strike north and northwest/west) consistent with both lineaments and concentrations of volatile organic compounds (VOCs) remained elevated at each packer sample zone. These results generally confirmed the nature and extent of subsurface impacts at BH14-1 and at this point in the RI/FS process investigation objectives will be pursued further to the east and closer to Pound Hill Road.

RIDEM has also requested that the new T3-A location remain aligned with the private water supply wells drilled on the condominium parcels to support groundwater quality assessment adjacent to downgradient receptors.

Comment 7:

Section 4.4.4.2, Monitoring Well Installation and Development, p 4-6. *Please note whether CW 4-70 is the same well as CW-4, and depict the well(s) on the map.*

CW 4-70 appears to be located in the northwest corner of the site. Chlorinated solvents were detected in this well. VOCs were also detected in the surface water sample collected in the vicinity of this well. There is no information concerning shallow groundwater contours in this area, bedrock groundwater contours depict groundwater flowing towards the east (not towards MW 101). Given the above it would seem prudent to further investigate this area with monitoring wells and/or other appropriate methods.

February 25, 2016 Response:

It is our understanding that CW 4-70 as referenced in the data summary tables for the 1985 Site Investigation Report is the same well referenced as CW-4 throughout the OU 1 RI/FS, the source of historic well locations shown on Figure 2-1 of the RI/FS Work Plan. Based on historic concentrations of VOCs at this location, groundwater quality will be evaluated as part of the RI by collecting discrete groundwater samples using direct push technology. The uppermost vertical sampling zone will correlate with the 70-foot depth designation from the OU 1 RI and samples will be collected at two additional five-foot intervals at 75 and 80-feet. Samples will be submitted for VOCs, 1,4-dioxane, and total and dissolved PP-13 metals. The results from sampling will be used to determine if a monitoring well needs to be constructed to meet long-term monitoring objectives. This approach has been incorporated into the Work Plan.

RIDEM Evaluation of Response to Comment

Considering the fact that a Geoprobe will be employed, and the nature of the contaminants, would it also make sense to drill down to the maximum depth possible and collect an additional sample for the parameters listed?

Be advised that, after sample collection if field screening with a photoionization detector (PID) at this location exhibits elevated levels, it may be worthwhile to take advantage of the real time analysis benefits and explore this area further by drilling another well in the suspected downgradient location in an attempt to locate the extent of the possible plume (thus also avoiding the need to remobilize and investigate this area at a later date).

Respondents Comment Response

Discussions with RIDEM on April 22, 2016 resulted in a modified sample collection approach at this location involving use of the WaterlooAPS sampler to obtain a sample corresponding to 40-feet followed by another sample collected at the maximum drilled depth possible with the Geoprobe. This revision reflects collection of one less sample at this location (was three and now two samples), but fulfills depth investigation objectives. Based on discussions with the selected drilling contractors the Geoprobe tooling may have difficulty reaching depths greater than 80-feet.

Comment 9:

Section 4.4.4.2, Monitoring Well Installation and Development, p 4-6. *VOCs were detected in surface water and sediment sample SW-6 SED-6 located at the south eastern portion of the site indicting contaminant migration in this area. There are no wells in this area and there is little to no information concerning groundwater flow. It is therefore recommended that this area be investigated further.*

February 25, 2016 Response:

We have updated Figure 4-2 to add a wetland sampling location with expanded analytes at the location of SW-6/SED6.

RIDEM Evaluation of Response to Comment

The sediment sample will allow one to ascertain whether the previous observed impacts to the stream are still present. Considering the length of the stream, and the limited sampling history it might make sense to collect two sediment samples. This will allow one to fully investigate the stream and evaluate any ecological or human health impacts.

In regard to groundwater, previous groundwater contours, maps indicate a western component of groundwater flow in this area. Nearby wells have been found to be impacted with 1,4-dioxane. Perhaps it would make sense to collect a Geoprobe sample in this area to address groundwater concerns.

Respondents Comment Response

One additional wetland sample location, which includes sediment, surface water, and pore water samples, has been added south of the existing sample (TRIB-9) based on this

request. Figure 4-2 of the RI/FS Work Plan has been revised to reflect the addition of this wetland sample location.

Discussions with RIDEM on April 22, 2016 resulted in the addition of one Geoprobe/WaterlooAPS boring in the vicinity of SW-6/SED-6 from the OU 1 RI/FS, as shown on the revised Figure 4-1 of the RI/FS Work Plan. A groundwater sample will be collected for analysis of VOCs and 1,4-dioxane at one discrete depth interval based on achievable drilling depths at this new location.

Comment 10:

Section 4.4.4.2, Monitoring Well Installation and Development, p. 4-6. *Monitoring Well location CW-5A, B, C was found to contain VOCs and 1,4-dioxane. There are wells to the southeast of this location which were also found to be contaminated, however there are no wells northeast of this location, in the probable direction of water flow, north of this location. It is recommended that this area be further investigated and a well be installed northeast of the set (and potentially north, depending upon the results of the survey).*

February 25, 2016 Response:

Groundwater quality along the northeast corner of the landfill has been historically monitored using CW-5B (screened 92 to 102 feet below the ground surface). Concentrations of tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethylene (cis-1,2-DCE), and vinyl chloride were detected at levels above maximum contaminant levels (MCLs) until 2010. Systematic decreases in these constituents were noted several year's prior as a result of expected biological reductive pathways that have led to significant groundwater quality improvements in this area. Recent samples collected from all three wells in 2014 did not indicate levels of 1,4-dioxane while the sample from CW-5B collected in 2015 showed low levels of 1,4-dioxane at 1.15 picogram per liter (pg/L). Samples from WaterlooAPS location WL-1 downgradient of the CW-5 wells indicated low levels of two of these constituents (PCE and cis-1,2-DCE, and no 1,4-dioxane) below MCLs and highlight the effectiveness of in situ biodegradation processes in this area. Based on low levels of data collected up to this point additional investigation locations are not proposed in this area. Groundwater quality will continue to be evaluated at the CW-5 cluster of wells along with a new borehole and wells along the northern boundary of Lot 23 with Lot 15. In the event that groundwater impacts are identified following sampling at these locations, further characterization of groundwater may be considered.

RIDEM Evaluation of Response to Comment

CW-5 A, B, and C are groundwater cluster monitoring wells immediately adjacent to each other. It has been noted that WL-1 can be used to monitor groundwater that is coming from the CW-5 cluster. According to the groundwater contours information provided in Figure 2-4 the bedrock and shallow overburden groundwater from the Site flows east/northeast, towards CW-5A and CW-5C, it does not flow towards the southeast towards WL-1. The intermediate groundwater, however, has a southeast component groundwater flow from the Site that would ultimately flow towards WL-1. Groundwater contours noted in other reports taken during other periods show groundwater flow east/northeast towards the CW-5 clusters and not to the southeast towards WL-1. As the CW-5 wells are northeast of the Site, a northeast component of groundwater flow is necessary for contamination from the

Site to reach these wells; only a southwest flow component existed groundwater flow from the Site would have missed these well clusters.

It is acknowledged that the groundwater contours depicted in Figure 2-4 may have been developed without piezometer information that was present in the past. As there are still questions concerning this area, and as groundwater, contamination would necessitate a northeast/east flow, it will be necessary to take samples east of this well cluster. Therefore, it would seem appropriate to have a series of Geoprobe wells be installed east of the CW-5 cluster. This will provide information concerning the extent of contamination in this area.

Respondents Comment Response

The direction of groundwater flow and decreases in VOC concentrations at the CW-5 well cluster over time were reviewed during the April 22, 2016 discussion with RIDEM to support advancement of one Geoprobe boring and collection of a groundwater WaterlooAPS sample on Lot 15. Refer to revised Figure 4-1 of the RI/FS Work Plan for the proposed location. One groundwater sample will be collected from the maximum drilled depth and submitted for laboratory analysis of VOCs and 1,4-dioxane.

Comment 12:

Section 4.4.4.2, Monitoring Well Installation and Development, p. 4-6. *CW-1 was found to contain a variety of VOCs. The surface water samples taken downgradient of this monitoring well also contained VOCs.*

CW-1 appears to be located on the eastern side of the landfill in-between CW-6 and CW-7. Please depict its location on a map as this will assist in evaluating the proposed WL well location.

February 25, 2016 Response:

Based on review of the 1985 Site Investigation Report, the CW-1 couplet is located due west of the CW-6 well cluster. These wells have been abandoned. These locations have been added to Figure 4-2.

RIDEM Evaluation of Response to Comment

Please note whether the wells that are abandoned are in place. If the wells are still present, but abandoned and the intent is to not sample the wells in the future then they will have to be closed in accordance with Rhode Island Groundwater Quality Regulations.

Respondents Comment Response

Well abandonment logs for the CW-1 network of wells have not been identified. Field reconnaissance of the area where these wells were located did not indicate conditions associated with an improperly abandoned well. If on-going observations identify the presence of wells thought to have been abandoned than a well viability assessment will be conducted to determine if abandonment is necessary.

Comment 12:

Section 4.4.4.2, Monitoring Well Installation and Development, p. 4-6. *CW-3-3-30 and CW-3-45 contained a variety of VOCs. Please note the locations of these wells on figures. as they will aid in the assessment of contaminant distribution and the proposed monitoring well locations.*

February 25, 2016 Response:

The location of the abandoned CW-2 well triplet has been added to Figure 4-2.

RIDEM Evaluation of Response to Comment

In regards to CW-2-37, this well was found to contain chlorobenzene, chloroform, 1,1-dichloroethane, 1,2-dichloroethane, TCE, and PCE. This well does not appear to be located in a downgradient location based upon groundwater contours (it is recommended that the depicted location of this well be compared to historic reports). It is acknowledged that the groundwater contours are based upon limited data and there is insufficient coverage in a number of areas. As these contaminates were detected a number of times during this wells limited sampling history, and as groundwater contour information is limited, it would seem worthwhile to install a well in this area (assuming that the depicted location of this well has been confirmed). It is recommended a Geoprobe well be installed in this area and that similar to CW-4, 70 samples be collected at the approximate depth of the historical results and at the deepest point of the aquifer achievable by a Geoprobe.

Respondents Comment Response

A review of the OU 1 RI/FS resulted in modifying the location of the CW-2 well cluster on the RI/FS Work Plan figures. The figures have been revised to show the correct location which is located upgradient of CW-5. Therefore, no further samples are required in this area given the upgradient/downgradient configuration of the well clusters.

RESPONDENTS PROPOSED REVISIONS/CLARIFICATIONS

Based on further review of project objectives and available technologies, the Respondents have proposed revisions and clarifications to the Interim Final SAP and RI/FS Work Plan documents. These changes are described below and have been incorporated into the Addendums to the Interim Final SAP and RI/FS Work Plan submitted concurrent with this Comment Response.

SAP Revisions/Clarifications

Section 18: As discussed in the response to EPA Comment 3, it is proposed that the data validation levels as outlined in the Interim Final SAP be revised to better accommodate project schedule while still maintaining data quality objectives. These revisions are described in the response to EPA Comment 3 and have also been incorporated into Section 18 in the Addendum to the Interim Final SAP.

Table 19-1: Table 19-1 has been updated to include clarification on the intended validation of the data collected during packer sampling of the bedrock boreholes based on the borehole termination criteria outlined in Table 4-2 of the RI/FS Work Plan. Because these data are being used as a

screening tool only, they will be validated using the Tier I criteria outlined in Section 18 of the Interim Final SAP.

Section 19 & Appendix G: The Addendum to the Interim Final SAP also includes a Statement of Qualifications for Environmental Standards, Inc. who may provide data validation services during the RI/FS in addition to Gloria Switalski of Data Check, Inc.

RI/FS Work Plan Revisions/Clarifications

Following of review of available multi-level monitoring systems, the Respondents are proposing to utilize the Model 403 Continuous Multichannel Tubing (CMT) Multilevel System™ developed by Solinst Canada, Ltd. The CMT system can be used for multilevel groundwater sampling and water level monitoring in unconsolidated soils and bedrock and is manufactured in two sizes (3-channel and 7-channel, where a channel is equivalent to a sampling/monitoring port at a designated subsurface interval) depending on the number of desired sample intervals.

It is proposed that during RI activities, CMT systems be installed at each of the proposed overburden and bedrock monitoring locations in addition to the existing bedrock borehole BH14-1. It is anticipated that two 7-channel systems will be installed at each monitoring location, one overburden and one bedrock, with the channels potentially allocated as follows:

- Three channels used as primary sample ports at the selected sample intervals,
- Three channels used for water level measurements at the selected sample intervals,
- One channel for use as a duplicate sample port; and
- Potential for additional sampling ports to be installed by taking additional water level channels and/or the duplicate sample port.

Using this approach, each 7-channel CMT system provides the equivalent of multiple monitoring wells and will therefore minimize the number of borings required at each of the proposed investigations and reduce the time required for overburden drilling and well installation.

The specific sample intervals will be determined following drilling activities based on visual observations and PID screening during drilling (overburden) and borehole geophysical and packer sampling results (bedrock). Sample ports will be up to 5-feet in length with filter sand installed in the annular space to a depth of up to 2-feet above and below the top and bottom of each port. Bentonite will be used to seal the annular space between each sample port.

Samples will be collected using Teflon-lined polyethylene tubing and either a peristaltic pump or a non-dedicated submersible micro Double Valve Pump (DVP) depending on groundwater depth at individual channel zones. Each sample port channel will be developed a minimum of seven days prior to sampling. As indicated in the Interim Final RI/FS Work Plan, the Respondents will submit a memorandum to the Agencies following multi-level system installation outlining the proposed groundwater sampling locations and analytical parameters to be collected at each.

A data sheet describing the proposed CMT system has been included as Attachment 3 to this Comment Response. In addition, the use of the Solinst CMT system has been included in the revised Interim Final RI/FS Work Plan.

We have provided PDF files containing the entirety of each revised document as well as Word files showing the revisions that we have made in "track changes".

The revision of these documents and the corresponding coordination with adjacent property owners for access consideration has resulted in extending the schedule for completing the RI/FS beyond the schedule outlined in the SOW.

Please let us know if you have any questions or need additional information. We look forward to discussing these responses with you in the near future.

WOODARD & CURRAN INC.

Alan Benevides, P.E., L.S.P.
Senior Project Manager

224263.5G

Attachments: Attachment 1 – Sediment RSL Calculator Worksheets
Attachment 2 – Data Validation Levels and Modifications
Attachment 3 – Solinst CMT Multilevel System Model 403 Data Sheet

cc: Warren Diesel, AECOM
Karen Douglas, Corning Incorporated
Angela Knight, Corning Incorporated
Curt Connors, Giarrusso Norton Cooley & McGlone, PC
Roy Giarrusso, Giarrusso Norton Cooley & McGlone, PC
James Cashwell, Olin Corporation
Paul Kulpa, RIDEM
Judy Armour, Waste Management
David Moreira, Waste Management

ATTACHMENT 1: SEDIMENT RSL CALCULATOR WORKSHEETS

Site-specific

Recreator Equation Inputs for Soil

Variable	Value
TR (target cancer risk) unitless	1.0E-6
THQ (target hazard quotient) unitless	0.1
SA_{rec-c} (skin surface area - child) cm^2/day	2373
SA_{rec-a} (skin surface area - adult) cm^2/day	6032
SA_{0-2} (skin surface area - mutagenic) cm^2/day	2373
SA_{2-6} (skin surface area - mutagenic) cm^2/day	2373
SA_{6-16} (skin surface area - mutagenic) cm^2/day	6032
SA_{16-30} (skin surface area - mutagenic) cm^2/day	6032
SA_{rec-a} (skin surface area - adult) cm^2/day	6032
LT (lifetime - recreator) year	70
$IFS_{rec-adj}$ (age-adjusted soil ingestion factor) mg/kg	5460
$DFS_{rec-adj}$ (age-adjusted soil dermal factor) mg/kg	15360.8
$IFSM_{rec-adj}$ (mutagenic age-adjusted soil ingestion factor) mg/kg	24786.667
$DFSM_{rec-adj}$ (mutagenic age-adjusted soil dermal factor) mg/kg	63627.2
EF_{0-2} (exposure frequency) day/year	52
EF_{2-6} (exposure frequency) day/year	52
EF_{6-16} (exposure frequency) day/year	52
EF_{16-30} (exposure frequency) day/year	52
EF_{rec-c} (exposure frequency - child) day/year	52
EF_{rec-a} (exposure frequency - adult) day/year	52
EF_{rec-a} (exposure frequency - adult) day/year	52
EF_{rec} (exposure frequency - recreator) day/year	52
IRS_{0-2} (soil intake rate) mg/day	200
IRS_{2-6} (soil intake rate) mg/day	200
IRS_{6-16} (soil intake rate) mg/day	100
IRS_{16-30} (soil intake rate) mg/day	100
IRS_{rec-c} (soil intake rate - child) mg/day	200
IRS_{rec-a} (soil intake rate - adult) mg/day	100
IRS_{rec-a} (soil intake rate - adult) mg/day	100
ED_{0-2} (exposure duration) year	2
ED_{2-6} (exposure duration) year	4
ED_{6-16} (exposure duration) year	10
ED_{16-30} (exposure duration) year	10

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Site-specific

Recreator Equation Inputs for Soil

Variable	Value
ED_{rec-c} (exposure duration - child) year	6
ED_{rec-a} (exposure duration - adult) year	20
ED_{rec-a} (exposure duration - adult) year	20
ED_{rec} (exposure duration - recreator) year	26
ET_{0-2} (exposure time) hr/day	2
ET_{2-6} (exposure time) hr/day	2
ET_{6-16} (exposure time) hr/day	2
ET_{16-30} (exposure time) hr/day	2
ET_{rec-c} (exposure time - child) hr/day	2
ET_{rec-a} (exposure time - adult) hr/day	2
ET_{rec-a} (exposure time - adult) hr/day	2
ET_{rec} (exposure time - recreator) hr/day	2
BW_{0-2} (body weight) kg	15
BW_{2-6} (body weight) kg	15
BW_{6-16} (body weight) kg	80
BW_{16-30} (body weight) kg	80
BW_{rec-c} (body weight - child) kg	15
BW_{rec-a} (body weight - adult) kg	80
BW_{rec-a} (body weight - adult) kg	80
AF_{0-2} (skin adherence factor) mg/cm ^{2}	0.2
AF_{2-6} (skin adherence factor) mg/cm ^{2}	0.2
AF_{6-16} (skin adherence factor) mg/cm ^{2}	0.07
AF_{16-30} (skin adherence factor) mg/cm ^{2}	0.07
AF_{rec-c} (skin adherence factor - child) mg/cm ^{2}	0.2
AF_{rec-a} (skin adherence factor - adult) mg/cm ^{2}	0.07
AF_{rec-a} (skin adherence factor - adult) mg/cm ^{2}	0.07
City (Climate Zone) PEF Selection	Default
A_c (acres)	.5
Q/C_{wp} (g/m^2-s per kg/m^3)	93.77
PEF (particulate emission factor) m ^{3}/kg	1359344438
A (PEF Dispersion Constant)	16.2302
B (PEF Dispersion Constant)	18.7762
C (PEF Dispersion Constant)	216.108

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Site-specific

Recreator Equation Inputs for Soil

Variable	Value
V (fraction of vegetative cover) unitless	0.5
U_m (mean annual wind speed) m/s	4.69
U_t (equivalent threshold value)	11.32
F(x) (function dependant on U_m/U_t) unitless	0.194
City (Climate Zone) VF Selection	Default
A_c (acres)	.5
Q/C_{vol} (g/m^2-s per kg/m^3)	68.18
foc (fraction organic carbon in soil) g/g	0.006
ρ$_b$ (dry soil bulk density) g/cm^3	1.5
ρ$_s$ (soil particle density) g/cm^3	2.65
n (total soil porosity) L_{pore}/L_{soil}	0.43396
θ$_a$ (air-filled soil porosity) L_{air}/L_{soil}	0.28396
θ$_w$ (water-filled soil porosity) L_{water}/L_{soil}	0.15
T (exposure interval) s	819936000
A (VF Dispersion Constant)	11.911
B (VF Dispersion Constant)	18.4385
C (VF Dispersion Constant)	209.7845
City (Climate Zone) VF_{ml} Selection	Default
VF_s (volitization factor) m^3/kg	.
Q/C_{vol} (g/m^2-s per kg/m^3)	68.18365
A_c (acres)	.5
T (exposure interval) yr	26
d_c (depth of source) m	.
ρ$_b$ (dry soil bulk density) g/cm^3	1.5
A (VF Dispersion Constant - Mass Limit)	11.911
B (VF Dispersion Constant - Mass Limit)	18.4385
C (VF Dispersion Constant - Mass Limit)	209.7845

Site-specific

Recreator Screening Levels (RSL) for Soil

ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Acephate	30560-19-1	No	No	8.70E-03	I	-		4.00E-03	I
Acetaldehyde	75-07-0	No	Yes	-		2.20E-06	I	-	
Acetochlor	34256-82-1	No	No	-		-		2.00E-02	I
Acetone	67-64-1	No	Yes	-		-		9.00E-01	I
Acetone Cyanohydrin	75-86-5	No	No	-		-		-	
Acetonitrile	75-05-8	No	Yes	-		-		-	
Acetophenone	98-86-2	No	Yes	-		-		1.00E-01	I
Acetylaminofluorene, 2-	53-96-3	No	No	3.80E+00	C	1.30E-03	C	-	
Acifluorofen	50594-66-6	No	No	-		-		-	
Acridine	260-94-6	No	No	-		-		-	
Acrolein	107-02-8	No	Yes	-		-		5.00E-04	I
Acrylamide	79-06-1	Yes	No	5.00E-01	I	1.00E-04	I	2.00E-03	I
Acrylic Acid	79-10-7	No	Yes	-		-		5.00E-01	I
Acrylonitrile	107-13-1	No	Yes	5.40E-01	I	6.80E-05	I	4.00E-02	A
Adiponitrile	111-69-3	No	No	-		-		-	
Alachlor	15972-60-8	No	No	5.60E-02	C	-		1.00E-02	I
Daminozide	1596-84-5	No	No	1.80E-02	C	5.10E-06	C	1.50E-01	I
Aldicarb	116-06-3	No	No	-		-		1.00E-03	I
Aldicarb Sulfone	1646-88-4	No	No	-		-		1.00E-03	I
Aldicarb sulfoxide	1646-87-3	No	No	-		-		-	
Aldrin	309-00-2	No	Yes	1.70E+01	I	4.90E-03	I	3.00E-05	I
Aliphatic Chlorinated Hydrocarbons (each)	NA	No	No	-		-		-	
Aliphatic Chlorinated Hydrocarbons (total)	NA	No	No	-		-		-	
Alizarin Red Compounds	NA	No	No	-		-		-	
Metsulfuron-methyl	74223-64-6	No	No	-		-		2.50E-01	I

Site-specific

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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Acephate	-		1	0.1	1	-	-	1.36E+09
Acetaldehyde	9.00E-03	I	1	-	1	8.72E+03	1.07E+05	1.36E+09
Acetochlor	-		1	0.1	1	-	-	1.36E+09
Acetone	3.09E+01	A	1	-	1	1.37E+04	1.14E+05	1.36E+09
Acetone Cyanohydrin	2.00E-03	S	1	0.1	1	-	-	1.36E+09
Acetonitrile	6.00E-02	I	1	-	1	1.30E+04	1.28E+05	1.36E+09
Acetophenone	-		1	-	1	5.97E+04	2.52E+03	1.36E+09
Acetylaminofluorene, 2-	-		1	0.1	1	-	-	1.36E+09
Acifluorofen	-		1	0.1	1	-	-	1.36E+09
Acridine	-		1	0.1	1	-	-	1.36E+09
Acrolein	2.00E-05	I	1	-	1	6.91E+03	2.27E+04	1.36E+09
Acrylamide	6.00E-03	I	1	0.1	1	-	-	1.36E+09
Acrylic Acid	1.00E-03	I	1	-	1	9.53E+04	1.09E+05	1.36E+09
Acrylonitrile	2.00E-03	I	1	-	1	7.69E+03	1.13E+04	1.36E+09
Adiponitrile	6.00E-03	P	1	0.1	1	-	-	1.36E+09
Alachlor	-		1	0.1	1	-	-	1.36E+09
Daminozide	-		1	0.1	1	-	-	1.36E+09
Aldicarb	-		1	0.1	1	-	-	1.36E+09
Aldicarb Sulfone	-		1	0.1	1	-	-	1.36E+09
Aldicarb sulfoxide	-		1	0.1	1	-	-	1.36E+09
Aldrin	-		1	-	1	1.72E+06	-	1.36E+09
Aliphatic Chlorinated Hydrocarbons (each)	-		1	0.1	1	-	-	1.36E+09
Aliphatic Chlorinated Hydrocarbons (total)	-		1	0.1	1	-	-	1.36E+09
Alizarin Red Compounds	-		1	0.1	1	-	-	1.36E+09
Metsulfuron-methyl	-		1	0.1	1	-	-	1.36E+09

Site-specific

Recreator Screening Levels (RSL) for Soil

ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Acephate	5.38E+02	1.91E+03	-	4.20E+02	2.11E+02	8.87E+02	-
Acetaldehyde	-	-	8.99E+02	8.99E+02	-	-	6.61E+02
Acetochlor	-	-	-	-	1.05E+03	4.44E+03	-
Acetone	-	-	-	-	4.74E+04	-	3.56E+06
Acetone Cyanohydrin	-	-	-	-	-	-	2.29E+07
Acetonitrile	-	-	-	-	-	-	6.55E+03
Acetophenone	-	-	-	-	5.26E+03	-	-
Acetylaminofluorene, 2-	1.23E+00	4.38E+00	2.37E+05	9.61E-01	-	-	-
Acifluorofen	-	-	-	-	-	-	-
Acridine	-	-	-	-	-	-	-
Acrolein	-	-	-	-	2.63E+01	-	1.16E+00
Acrylamide	2.06E+00	8.03E+00	1.11E+06	1.64E+00	1.05E+02	4.44E+02	6.87E+07
Acrylic Acid	-	-	-	-	2.63E+04	-	8.03E+02
Acrylonitrile	8.67E+00	-	2.56E+01	6.48E+00	2.11E+03	-	1.29E+02
Adiponitrile	-	-	-	-	-	-	6.87E+07
Alachlor	8.36E+01	2.97E+02	-	6.52E+01	5.26E+02	2.22E+03	-
Daminozide	2.60E+02	9.24E+02	6.04E+07	2.03E+02	7.90E+03	3.33E+04	-
Aldicarb	-	-	-	-	5.26E+01	2.22E+02	-
Aldicarb Sulfone	-	-	-	-	5.26E+01	2.22E+02	-
Aldicarb sulfoxide	-	-	-	-	-	-	-
Aldrin	2.75E-01	-	7.93E+01	2.74E-01	1.58E+00	-	-
Aliphatic Chlorinated Hydrocarbons (each)	-	-	-	-	-	-	-
Aliphatic Chlorinated Hydrocarbons (total)	-	-	-	-	-	-	-
Alizarin Red Compounds	-	-	-	-	-	-	-
Metsulfuron-methyl	-	-	-	-	1.32E+04	5.55E+04	-

Site-specific

Recreator Screening Levels (RSL) for Soil

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Acephate	1.70E+02	2.25E+03	5.32E+03	-	1.58E+03	1.70E+02 nc
Acetaldehyde	6.61E+02	-	-	6.61E+02	6.61E+02	6.61E+02 nc
Acetochlor	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Acetone	4.68E+04	5.05E+05	-	3.56E+06	4.42E+05	4.68E+04 nc
Acetone Cyanohydrin	2.29E+07	-	-	2.29E+07	2.29E+07	2.29E+07 max
Acetonitrile	6.55E+03	-	-	6.55E+03	6.55E+03	6.55E+03 nc
Acetophenone	5.26E+03	5.62E+04	-	-	5.62E+04	5.26E+03 sat
Acetylaminofluorene, 2-	-	-	-	-	-	9.61E-01 ca
Acifluorofen	-	-	-	-	-	
Acridine	-	-	-	-	-	
Acrolein	1.12E+00	2.81E+02	-	1.16E+00	1.16E+00	1.12E+00 nc
Acrylamide	8.51E+01	1.12E+03	2.66E+03	6.87E+07	7.90E+02	1.64E+00 ca*
Acrylic Acid	7.79E+02	2.81E+05	-	8.03E+02	8.00E+02	7.79E+02 nc
Acrylonitrile	1.22E+02	2.25E+04	-	1.29E+02	1.29E+02	6.48E+00 ca*
Adiponitrile	6.87E+07	-	-	6.87E+07	6.87E+07	6.87E+07 max
Alachlor	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	6.52E+01 ca**
Daminozide	6.38E+03	8.42E+04	1.99E+05	-	5.92E+04	2.03E+02 ca*
Aldicarb	4.25E+01	5.62E+02	1.33E+03	-	3.95E+02	4.25E+01 nc
Aldicarb Sulfone	4.25E+01	5.62E+02	1.33E+03	-	3.95E+02	4.25E+01 nc
Aldicarb sulfoxide	-	-	-	-	-	
Aldrin	1.58E+00	1.68E+01	-	-	1.68E+01	2.74E-01 ca**
Aliphatic Chlorinated Hydrocarbons (each)	-	-	-	-	-	
Aliphatic Chlorinated Hydrocarbons (total)	-	-	-	-	-	
Alizarin Red Compounds	-	-	-	-	-	
Metsulfuron-methyl	1.06E+04	1.40E+05	3.32E+05	-	9.87E+04	1.06E+04 nc

Site-specific

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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Allyl Alcohol	107-18-6	No	Yes	-		-		5.00E-03	I
Allyl Chloride	107-05-1	No	Yes	2.10E-02	C	6.00E-06	C	-	
Aluminum	7429-90-5	No	No	-		-		1.00E+00	P
Aluminum Phosphide	20859-73-8	No	No	-		-		4.00E-04	I
Hydramethylnon	67485-29-4	No	No	-		-		3.00E-04	I
Ametryn	834-12-8	No	No	-		-		9.00E-03	I
Amino-4-chlorobenzotrifluoride, 3-	121-50-6	No	Yes	-		-		-	
Aminoazobenzene, p-	60-09-3	No	No	-		-		-	
Aminobiphenyl, 4-	92-67-1	No	No	2.10E+01	C	6.00E-03	C	-	
Aminophenol, m-	591-27-5	No	No	-		-		8.00E-02	P
Aminophenol, o-	95-55-6	No	No	-		-		-	
Aminophenol, p-	123-30-8	No	No	-		-		2.00E-02	P
Aminopyridine, 4-	504-24-5	No	No	-		-		-	
Amitraz	33089-61-1	No	No	-		-		2.50E-03	I
Ammonium Sulfamate	7773-06-0	No	No	-		-		2.00E-01	I
Amyl Alcohol, tert-	75-85-4	No	Yes	-		-		-	
Aniline	62-53-3	No	No	5.70E-03	I	1.60E-06	C	7.00E-03	P
Anilinobenzothiazole	1843-21-6	No	No	-		-		-	
Anthraquinone, 9,10-	84-65-1	No	No	4.00E-02	P	-		2.00E-03	S
Antimony (metallic)	7440-36-0	No	No	-		-		4.00E-04	I
Antimony Pentoxide	1314-60-9	No	No	-		-		5.00E-04	H
Antimony Potassium Tartrate	11071-15-1	No	No	-		-		-	
Antimony Tetroxide	1332-81-6	No	No	-		-		4.00E-04	H
Antimony Trioxide	1309-64-4	No	No	-		-		-	
Antimony Trichloride	10025-91-9	No	No	-		-		-	
Clofentezine	74115-24-5	No	No	-		-		1.30E-02	I
Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	140-57-8	No	No	2.50E-02	I	7.10E-06	I	5.00E-02	H

Site-specific

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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Allyl Alcohol	1.00E-04	S	1	-	1	3.42E+04	1.11E+05	1.36E+09
Allyl Chloride	1.00E-03	I	1	-	1	1.58E+03	1.42E+03	1.36E+09
Aluminum	5.00E-03	P	1	-	1	-	-	1.36E+09
Aluminum Phosphide	-		1	-	1	-	-	1.36E+09
Hydramethylnon	-		1	0.1	1	-	-	1.36E+09
Ametryn	-		1	0.1	1	-	-	1.36E+09
Amino-4-chlorobenzotrifluoride, 3-	-		1	-	1	2.67E+05	-	1.36E+09
Aminoazobenzene, p-	-		1	0.1	1	-	-	1.36E+09
Aminobiphenyl, 4-	-		1	0.1	1	-	-	1.36E+09
Aminophenol, m-	-		1	0.1	1	-	-	1.36E+09
Aminophenol, o-	-		1	0.1	1	-	-	1.36E+09
Aminophenol, p-	-		1	0.1	1	-	-	1.36E+09
Aminopyridine, 4-	-		1	0.1	1	-	-	1.36E+09
Amitraz	-		1	0.1	1	-	-	1.36E+09
Ammonium Sulfamate	-		1	-	1	-	-	1.36E+09
Amyl Alcohol, tert-	3.00E-03	S	1	-	1	2.62E+04	1.37E+04	1.36E+09
Aniline	1.00E-03	I	1	0.1	1	-	-	1.36E+09
Anilinobenzothiazole	-		1	0.1	1	-	-	1.36E+09
Anthraquinone, 9,10-	-		1	0.1	1	-	-	1.36E+09
Antimony (metallic)	-		0.15	-	1	-	-	1.36E+09
Antimony Pentoxide	-		0.15	-	1	-	-	1.36E+09
Antimony Potassium Tartrate	-		1	0.1	1	-	-	1.36E+09
Antimony Tetroxide	-		0.15	-	1	-	-	1.36E+09
Antimony Trioxide	2.00E-04	I	0.15	-	1	-	-	1.36E+09
Antimony Trichloride	-		1	-	1	-	-	1.36E+09
Clofentezine	-		1	0.1	1	-	-	1.36E+09
Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	-		1	0.1	1	-	-	1.36E+09

Site-specific

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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Allyl Alcohol	-	-	-	-	2.63E+02	-	2.88E+01
Allyl Chloride	2.23E+02	-	5.98E+01	4.72E+01	-	-	1.33E+01
Aluminum	-	-	-	-	5.26E+04	-	5.72E+07
Aluminum Phosphide	-	-	-	-	2.11E+01	-	-
Hydramethylnon	-	-	-	-	1.58E+01	6.66E+01	-
Ametryn	-	-	-	-	4.74E+02	2.00E+03	-
Amino-4-chlorobenzotrifluoride, 3-	-	-	-	-	-	-	-
Aminoazobenzene, p-	-	-	-	-	-	-	-
Aminobiphenyl, 4-	2.23E-01	7.92E-01	5.14E+04	1.74E-01	-	-	-
Aminophenol, m-	-	-	-	-	4.21E+03	1.77E+04	-
Aminophenol, o-	-	-	-	-	-	-	-
Aminophenol, p-	-	-	-	-	1.05E+03	4.44E+03	-
Aminopyridine, 4-	-	-	-	-	-	-	-
Amitraz	-	-	-	-	1.32E+02	5.55E+02	-
Ammonium Sulfamate	-	-	-	-	1.05E+04	-	-
Amyl Alcohol, tert-	-	-	-	-	-	-	6.62E+02
Aniline	8.21E+02	2.92E+03	1.93E+08	6.41E+02	3.69E+02	1.55E+03	1.14E+07
Anilinobenzothiazole	-	-	-	-	-	-	-
Anthraquinone, 9,10-	1.17E+02	4.16E+02	-	9.13E+01	1.05E+02	4.44E+02	-
Antimony (metallic)	-	-	-	-	2.11E+01	-	-
Antimony Pentoxide	-	-	-	-	2.63E+01	-	-
Antimony Potassium Tartrate	-	-	-	-	-	-	-
Antimony Tetroxide	-	-	-	-	2.11E+01	-	-
Antimony Trioxide	-	-	-	-	-	-	2.29E+06
Antimony Trichloride	-	-	-	-	-	-	-
Clofentezine	-	-	-	-	6.84E+02	2.88E+03	-
Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	1.87E+02	6.65E+02	4.34E+07	1.46E+02	2.63E+03	1.11E+04	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Allyl Alcohol	2.59E+01	2.81E+03	-	2.88E+01	2.85E+01	2.59E+01 nc
Allyl Chloride	1.33E+01	-	-	1.33E+01	1.33E+01	1.33E+01 nc
Aluminum	5.26E+04	5.62E+05	-	5.72E+07	5.56E+05	5.26E+04 nc
Aluminum Phosphide	2.11E+01	2.25E+02	-	-	2.25E+02	2.11E+01 nc
Hydramethylnon	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	1.28E+01 nc
Ametryn	3.83E+02	5.05E+03	1.20E+04	-	3.55E+03	3.83E+02 nc
Amino-4-chlorobenzotrifluoride, 3-	-	-	-	-	-	
Aminoazobenzene, p-	-	-	-	-	-	
Aminobiphenyl, 4-	-	-	-	-	-	1.74E-01 ca
Aminophenol, m-	3.40E+03	4.49E+04	1.06E+05	-	3.16E+04	3.40E+03 nc
Aminophenol, o-	-	-	-	-	-	
Aminophenol, p-	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Aminopyridine, 4-	-	-	-	-	-	
Amitraz	1.06E+02	1.40E+03	3.32E+03	-	9.87E+02	1.06E+02 nc
Ammonium Sulfamate	1.05E+04	1.12E+05	-	-	1.12E+05	1.05E+04 nc
Amyl Alcohol, tert-	6.62E+02	-	-	6.62E+02	6.62E+02	6.62E+02 nc
Aniline	2.98E+02	3.93E+03	9.31E+03	1.14E+07	2.76E+03	2.98E+02 nc
Anilinobenzothiazole	-	-	-	-	-	
Anthraquinone, 9,10-	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	8.51E+01 nc
Antimony (metallic)	2.11E+01	2.25E+02	-	-	2.25E+02	2.11E+01 nc
Antimony Pentoxide	2.63E+01	2.81E+02	-	-	2.81E+02	2.63E+01 nc
Antimony Potassium Tartrate	-	-	-	-	-	
Antimony Tetroxide	2.11E+01	2.25E+02	-	-	2.25E+02	2.11E+01 nc
Antimony Trioxide	2.29E+06	-	-	2.29E+06	2.29E+06	2.29E+06 max
Antimony Trichloride	-	-	-	-	-	
Clofentezine	5.53E+02	7.30E+03	1.73E+04	-	5.13E+03	5.53E+02 nc
Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	2.13E+03	2.81E+04	6.65E+04	-	1.97E+04	1.46E+02 ca*

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Arsenic Salts	NA	No	No	-		-		-	
Arsenic, Inorganic	7440-38-2	No	No	1.50E+00	I	4.30E-03	I	3.00E-04	I
Arsine	7784-42-1	No	No	-		-		3.50E-06	C
Quizalofop-ethyl	76578-14-8	No	No	-		-		9.00E-03	I
Asulam	3337-71-1	No	No	-		-		5.00E-02	I
Atrazine	1912-24-9	No	No	2.30E-01	C	-		3.50E-02	I
Auramine	492-80-8	No	No	8.80E-01	C	2.50E-04	C	-	
Avermectin B1	65195-55-3	No	No	-		-		4.00E-04	I
Azobenzene	103-33-3	No	Yes	1.10E-01	I	3.10E-05	I	-	
Azodicarbonamide	123-77-3	No	No	-		-		1.00E+00	P
Barium	7440-39-3	No	No	-		-		2.00E-01	I
Barium Chromate	10294-40-3	Yes	No	5.00E-01	C	1.50E-01	C	2.00E-02	C
Propanediol, 1,2-	114-26-1	No	No	-		-		4.00E-03	I
Triadimefon	43121-43-3	No	No	-		-		3.00E-02	I
Cyfluthrin	68359-37-5	No	No	-		-		2.50E-02	I
Benfluralin	1861-40-1	No	Yes	-		-		3.00E-01	I
Benomyl	17804-35-2	No	No	-		-		5.00E-02	I
Bentazon	25057-89-0	No	No	-		-		3.00E-02	I
Benzaldehyde	100-52-7	No	Yes	-		-		1.00E-01	I
Benzene	71-43-2	No	Yes	5.50E-02	I	7.80E-06	I	4.00E-03	I
Benzene, Ethyldimethyl	29224-55-3	No	Yes	-		-		-	
Benzene, Ethylmethyl	25550-14-5	No	Yes	-		-		-	
Benzene, Methylpropenyl	768-00-3	No	Yes	-		-		-	
Benzene, Methylpropyl	28729-54-6	No	No	-		-		-	
Benzene, Trimethyl	25551-13-7	No	Yes	-		-		-	
Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	No	No	1.00E-01	X	-		3.00E-04	S
Benzenethiol	108-98-5	No	Yes	-		-		1.00E-03	P

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Arsenic Salts	-		1	0.03	0.6	-	-	1.36E+09
Arsenic, Inorganic	1.50E-05	C	1	0.03	0.6	-	-	1.36E+09
Arsine	5.00E-05	I	1	-	1	-	-	1.36E+09
Quizalofop-ethyl	-		1	0.1	1	-	-	1.36E+09
Asulam	-		1	0.1	1	-	-	1.36E+09
Atrazine	-		1	0.1	1	-	-	1.36E+09
Auramine	-		1	0.1	1	-	-	1.36E+09
Avermectin B1	-		1	0.1	1	-	-	1.36E+09
Azobenzene	-		1	-	1	5.23E+05	-	1.36E+09
Azodicarbonamide	7.00E-06	P	1	0.1	1	-	-	1.36E+09
Barium	5.00E-04	H	0.07	-	1	-	-	1.36E+09
Barium Chromate	2.00E-04	C	0.025	-	1	-	-	1.36E+09
Propanediol, 1,2-	-		1	0.1	1	-	-	1.36E+09
Triadimefon	-		1	0.1	1	-	-	1.36E+09
Cyfluthrin	-		1	0.1	1	-	-	1.36E+09
Benfluralin	-		1	-	1	3.07E+05	-	1.36E+09
Benomyl	-		1	0.1	1	-	-	1.36E+09
Bentazon	-		1	0.1	1	-	-	1.36E+09
Benzaldehyde	-		1	-	1	2.25E+04	1.16E+03	1.36E+09
Benzene	3.00E-02	I	1	-	1	3.54E+03	1.82E+03	1.36E+09
Benzene, Ethyldimethyl	-		1	-	1	9.12E+03	1.30E+02	1.36E+09
Benzene, Ethylmethyl	-		1	-	1	1.78E+04	3.30E+02	1.36E+09
Benzene, Methylpropenyl	-		1	-	1	1.15E+04	4.07E+02	1.36E+09
Benzene, Methylpropyl	-		1	0.1	1	-	-	1.36E+09
Benzene, Trimethyl	-		1	-	1	1.23E+04	1.82E+02	1.36E+09
Benzenediamine-2-methyl sulfate, 1,4-	-		1	0.1	1	-	-	1.36E+09
Benzenethiol	-		1	-	1	1.94E+04	1.26E+03	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Arsenic Salts	-	-	-	-	-	-	-
Arsenic, Inorganic	5.20E+00	3.70E+01	7.17E+04	4.56E+00	2.63E+01	2.22E+02	1.72E+05
Arsine	-	-	-	-	1.84E-01	-	5.72E+05
Quizalofop-ethyl	-	-	-	-	4.74E+02	2.00E+03	-
Asulam	-	-	-	-	2.63E+03	1.11E+04	-
Atrazine	2.03E+01	7.23E+01	-	1.59E+01	1.84E+03	7.76E+03	-
Auramine	5.32E+00	1.89E+01	1.23E+06	4.15E+00	-	-	-
Avermectin B1	-	-	-	-	2.11E+01	8.87E+01	-
Azobenzene	4.25E+01	-	3.82E+03	4.21E+01	-	-	-
Azodicarbonamide	-	-	-	-	5.26E+04	2.22E+05	8.01E+04
Barium	-	-	-	-	1.05E+04	-	5.72E+06
Barium Chromate	2.06E+00	-	7.42E+02	2.06E+00	1.05E+03	-	2.29E+06
Propanediol, 1,2-	-	-	-	-	2.11E+02	8.87E+02	-
Triadimefon	-	-	-	-	1.58E+03	6.66E+03	-
Cyfluthrin	-	-	-	-	1.32E+03	5.55E+03	-
Benfluralin	-	-	-	-	1.58E+04	-	-
Benomyl	-	-	-	-	2.63E+03	1.11E+04	-
Bentazon	-	-	-	-	1.58E+03	6.66E+03	-
Benzaldehyde	-	-	-	-	5.26E+03	-	-
Benzene	8.51E+01	-	1.03E+02	4.66E+01	2.11E+02	-	8.94E+02
Benzene, Ethyldimethyl	-	-	-	-	-	-	-
Benzene, Ethylmethyl	-	-	-	-	-	-	-
Benzene, Methylpropenyl	-	-	-	-	-	-	-
Benzene, Methylpropyl	-	-	-	-	-	-	-
Benzene, Trimethyl	-	-	-	-	-	-	-
Benzenediamine-2-methyl sulfate, 1,4-	4.68E+01	1.66E+02	-	3.65E+01	1.58E+01	6.66E+01	-
Benzenethiol	-	-	-	-	5.26E+01	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Arsenic Salts	-	-	-	-	-	
Arsenic, Inorganic	2.35E+01	2.81E+02	1.33E+03	1.72E+05	2.32E+02	4.56E+00 ca**
Arsine	1.84E-01	1.97E+00	-	5.72E+05	1.97E+00	1.84E-01 nc
Quizalofop-ethyl	3.83E+02	5.05E+03	1.20E+04	-	3.55E+03	3.83E+02 nc
Asulam	2.13E+03	2.81E+04	6.65E+04	-	1.97E+04	2.13E+03 nc
Atrazine	1.49E+03	1.97E+04	4.65E+04	-	1.38E+04	1.59E+01 ca*
Auramine	-	-	-	-	-	4.15E+00 ca
Avermectin B1	1.70E+01	2.25E+02	5.32E+02	-	1.58E+02	1.70E+01 nc
Azobenzene	-	-	-	-	-	4.21E+01 ca
Azodicarbonamide	2.78E+04	5.62E+05	1.33E+06	8.01E+04	6.66E+04	2.78E+04 nc
Barium	1.05E+04	1.12E+05	-	5.72E+06	1.10E+05	1.05E+04 nc
Barium Chromate	1.05E+03	1.12E+04	-	2.29E+06	1.12E+04	2.06E+00 ca
Propanediol, 1,2-	1.70E+02	2.25E+03	5.32E+03	-	1.58E+03	1.70E+02 nc
Triadimefon	1.28E+03	1.68E+04	3.99E+04	-	1.18E+04	1.28E+03 nc
Cyfluthrin	1.06E+03	1.40E+04	3.32E+04	-	9.87E+03	1.06E+03 nc
Benfluralin	1.58E+04	1.68E+05	-	-	1.68E+05	1.58E+04 nc
Benomyl	2.13E+03	2.81E+04	6.65E+04	-	1.97E+04	2.13E+03 nc
Bentazon	1.28E+03	1.68E+04	3.99E+04	-	1.18E+04	1.28E+03 nc
Benzaldehyde	5.26E+03	5.62E+04	-	-	5.62E+04	5.26E+03 sat
Benzene	1.70E+02	2.25E+03	-	8.94E+02	6.39E+02	4.66E+01 ca**
Benzene, Ethyldimethyl	-	-	-	-	-	
Benzene, Ethylmethyl	-	-	-	-	-	
Benzene, Methylpropenyl	-	-	-	-	-	
Benzene, Methylpropyl	-	-	-	-	-	
Benzene, Trimethyl	-	-	-	-	-	
Benzenediamine-2-methyl sulfate, 1,4-	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	1.28E+01 nc
Benzenethiol	5.26E+01	5.62E+02	-	-	5.62E+02	5.26E+01 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Benzidine	92-87-5	Yes	No	2.30E+02	I	6.70E-02	I	3.00E-03	I
Benzofluoranthenes, total	NA	No	No	-		-		-	
Benzofluorene, 2,3-	243-17-4	No	No	-		-		-	
Benzoic Acid	65-85-0	No	No	-		-		4.00E+00	I
Benzoic acid, 3,5-dichloro-	51-36-5	No	No	-		-		-	
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	No	No	-		-		-	
Benzothiazole	95-16-9	No	No	-		-		-	
Benzotrichloride	98-07-7	No	Yes	1.30E+01	I	-		-	
Benzyl Alcohol	100-51-6	No	No	-		-		1.00E-01	P
Benzyl Chloride	100-44-7	No	Yes	1.70E-01	I	4.90E-05	C	2.00E-03	P
Beryllium and compounds	7440-41-7	No	No	-		2.40E-03	I	2.00E-03	I
Dicrotophos	141-66-2	No	No	-		-		1.00E-04	I
Bifenox	42576-02-3	No	No	-		-		9.00E-03	P
Biphenthrin	82657-04-3	No	No	-		-		1.50E-02	I
Biphenyl, 1,1'-	92-52-4	No	Yes	8.00E-03	I	-		5.00E-01	I
Bis(2-chloroethoxy)methane	111-91-1	No	No	-		-		3.00E-03	P
Bis(2-chloroethyl)ether	111-44-4	No	Yes	1.10E+00	I	3.30E-04	I	-	
Bis(2-chloro-1-methylethyl) ether	108-60-1	No	Yes	-		-		4.00E-02	I
Bis(chloromethyl)ether	542-88-1	No	Yes	2.20E+02	I	6.20E-02	I	-	
Bisphenol A	80-05-7	No	No	-		-		5.00E-02	I
Boron And Borates Only	7440-42-8	No	No	-		-		2.00E-01	I
Boron Trifluoride	7637-07-2	No	Yes	-		-		4.00E-02	C
Boron Trichloride	10294-34-5	No	Yes	-		-		2.00E+00	P
Bromacil	314-40-9	No	No	-		-		-	
Bromate	15541-45-4	No	No	7.00E-01	I	-		4.00E-03	I
Bromine	7726-95-6	No	Yes	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Benzidine	-		1	0.1	1	-	-	1.36E+09
Benzofluoranthenes, total	-		1	0.1	1	-	-	1.36E+09
Benzofluorene, 2,3-	-		1	0.1	1	-	-	1.36E+09
Benzoic Acid	-		1	0.1	1	-	-	1.36E+09
Benzoic acid, 3,5-dichloro-	-		1	0.1	1	-	-	1.36E+09
Benzoic acid, 4-hydroxy-, methyl ester	-		1	0.1	1	-	-	1.36E+09
Benzothiazole	-		1	0.1	1	-	-	1.36E+09
Benzotrichloride	-		1	-	1	6.76E+04	3.24E+02	1.36E+09
Benzyl Alcohol	-		1	0.1	1	-	-	1.36E+09
Benzyl Chloride	1.00E-03	P	1	-	1	2.55E+04	1.46E+03	1.36E+09
Beryllium and compounds	2.00E-05	I	0.007	-	1	-	-	1.36E+09
Dicrotophos	-		1	0.1	1	-	-	1.36E+09
Bifenox	-		1	0.1	1	-	-	1.36E+09
Biphenthrin	-		1	0.1	1	-	-	1.36E+09
Biphenyl, 1,1'-	4.00E-04	S	1	-	1	1.14E+05	-	1.36E+09
Bis(2-chloroethoxy)methane	-		1	0.1	1	-	-	1.36E+09
Bis(2-chloroethyl)ether	-		1	-	1	4.25E+04	5.05E+03	1.36E+09
Bis(2-chloro-1-methylethyl) ether	-		1	-	1	3.50E+04	1.02E+03	1.36E+09
Bis(chloromethyl)ether	-		1	-	1	1.88E+03	4.22E+03	1.36E+09
Bisphenol A	-		1	0.1	1	-	-	1.36E+09
Boron And Borates Only	2.00E-02	H	1	-	1	-	-	1.36E+09
Boron Trifluoride	1.30E-02	C	1	-	1	-	-	1.36E+09
Boron Trichloride	2.00E-02	P	1	-	1	-	-	1.36E+09
Bromacil	-		1	0.1	1	-	-	1.36E+09
Bromate	-		1	-	1	-	-	1.36E+09
Bromine	-		1	-	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Benzidine	4.48E-03	1.75E-02	1.66E+03	3.57E-03	1.58E+02	6.66E+02	-
Benzofluoranthenes, total	-	-	-	-	-	-	-
Benzofluorene, 2,3-	-	-	-	-	-	-	-
Benzoic Acid	-	-	-	-	2.11E+05	8.87E+05	-
Benzoic acid, 3,5-dichloro-	-	-	-	-	-	-	-
Benzoic acid, 4-hydroxy-, methyl ester	-	-	-	-	-	-	-
Benzothiazole	-	-	-	-	-	-	-
Benzotrichloride	3.60E-01	-	-	3.60E-01	-	-	-
Benzyl Alcohol	-	-	-	-	5.26E+03	2.22E+04	-
Benzyl Chloride	2.75E+01	-	1.18E+02	2.23E+01	1.05E+02	-	2.15E+02
Beryllium and compounds	-	-	1.28E+05	1.28E+05	1.05E+02	-	2.29E+05
Dicrotophos	-	-	-	-	5.26E+00	2.22E+01	-
Bifenox	-	-	-	-	4.74E+02	2.00E+03	-
Biphenthrin	-	-	-	-	7.90E+02	3.33E+03	-
Biphenyl, 1,1'-	5.85E+02	-	-	5.85E+02	2.63E+04	-	3.84E+02
Bis(2-chloroethoxy)methane	-	-	-	-	1.58E+02	6.66E+02	-
Bis(2-chloroethyl)ether	4.25E+00	-	2.92E+01	3.71E+00	-	-	-
Bis(2-chloro-1-methylethyl) ether	-	-	-	-	2.11E+03	-	-
Bis(chloromethyl)ether	2.13E-02	-	6.86E-03	5.19E-03	-	-	-
Bisphenol A	-	-	-	-	2.63E+03	1.11E+04	-
Boron And Borates Only	-	-	-	-	1.05E+04	-	2.29E+08
Boron Trifluoride	-	-	-	-	2.11E+03	-	1.49E+08
Boron Trichloride	-	-	-	-	1.05E+05	-	2.29E+08
Bromacil	-	-	-	-	-	-	-
Bromate	6.68E+00	-	-	6.68E+00	2.11E+02	-	-
Bromine	-	-	-	-	-	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Benzidine	1.28E+02	1.68E+03	3.99E+03	-	1.18E+03	3.57E-03 ca
Benzofluoranthenes, total	-	-	-	-	-	
Benzofluorene, 2,3-	-	-	-	-	-	
Benzoic Acid	1.70E+05	2.25E+06	5.32E+06	-	1.58E+06	1.70E+05 max
Benzoic acid, 3,5-dichloro-	-	-	-	-	-	
Benzoic acid, 4-hydroxy-, methyl ester	-	-	-	-	-	
Benzothiazole	-	-	-	-	-	
Benzotrichloride	-	-	-	-	-	3.60E-01 ca
Benzyl Alcohol	4.25E+03	5.62E+04	1.33E+05	-	3.95E+04	4.25E+03 nc
Benzyl Chloride	7.06E+01	1.12E+03	-	2.15E+02	1.80E+02	2.23E+01 ca**
Beryllium and compounds	1.05E+02	1.12E+03	-	2.29E+05	1.12E+03	1.05E+02 nc
Dicrotophos	4.25E+00	5.62E+01	1.33E+02	-	3.95E+01	4.25E+00 nc
Bifenox	3.83E+02	5.05E+03	1.20E+04	-	3.55E+03	3.83E+02 nc
Biphenthrin	6.38E+02	8.42E+03	1.99E+04	-	5.92E+03	6.38E+02 nc
Biphenyl, 1,1'-	3.78E+02	2.81E+05	-	3.84E+02	3.83E+02	3.78E+02 nc
Bis(2-chloroethoxy)methane	1.28E+02	1.68E+03	3.99E+03	-	1.18E+03	1.28E+02 nc
Bis(2-chloroethyl)ether	-	-	-	-	-	3.71E+00 ca
Bis(2-chloro-1-methylethyl) ether	2.11E+03	2.25E+04	-	-	2.25E+04	2.11E+03 sat
Bis(chloromethyl)ether	-	-	-	-	-	5.19E-03 ca
Bisphenol A	2.13E+03	2.81E+04	6.65E+04	-	1.97E+04	2.13E+03 nc
Boron And Borates Only	1.05E+04	1.12E+05	-	2.29E+08	1.12E+05	1.05E+04 nc
Boron Trifluoride	2.11E+03	2.25E+04	-	1.49E+08	2.25E+04	2.11E+03 nc
Boron Trichloride	1.05E+05	1.12E+06	-	2.29E+08	1.12E+06	1.05E+05 max
Bromacil	-	-	-	-	-	
Bromate	2.11E+02	2.25E+03	-	-	2.25E+03	6.68E+00 ca*
Bromine	-	-	-	-	-	

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Bromo-2-chloroethane, 1-	107-04-0	No	Yes	2.00E+00	X	6.00E-04	X	-	
Bromo-3-fluorobenzene, 1-	1073-06-9	No	Yes	-		-		-	
Bromo-4-Ethylbenzene, 1-	1585-07-5	No	Yes	-		-		-	
Bromoacetic acid	79-08-3	No	No	-		-		-	
Bromoacetophenone, 3-	2142-63-4	No	No	-		-		-	
Bromobenzene	108-86-1	No	Yes	-		-		8.00E-03	I
Bromochloromethane	74-97-5	No	Yes	-		-		-	
Bromodichloromethane	75-27-4	No	Yes	6.20E-02	I	3.70E-05	C	2.00E-02	I
Bromodiphenyl Ether, p-	101-55-3	No	Yes	-		-		-	
Bromofluorobenzene, p-	460-00-4	No	Yes	-		-		-	
Bromoform	75-25-2	No	Yes	7.90E-03	I	1.10E-06	I	2.00E-02	I
Bromomethane	74-83-9	No	Yes	-		-		1.40E-03	I
Bromophenol, p-	106-41-2	No	No	-		-		-	
Bromophos	2104-96-3	No	Yes	-		-		5.00E-03	H
Bromopyridine, 2-	109-04-6	No	No	-		-		-	
Bromotrichloromethane	75-62-7	No	Yes	-		-		-	
Bromoxynil	1689-84-5	No	No	-		-		2.00E-02	I
Bromoxynil Octanoate	1689-99-2	No	Yes	-		-		2.00E-02	I
Butadiene, 1,3-	106-99-0	No	Yes	3.40E+00	C	3.00E-05	I	-	
Butanediol, 2,3-	513-85-9	No	No	-		-		-	
Butanol	35296-72-1	No	Yes	-		-		-	
Butanol, N-	71-36-3	No	Yes	-		-		1.00E-01	I
Butanone-2, 4-chloro-4,4-difluoro	1515-16-8	No	No	-		-		-	
Butyl alcohol, sec-	78-92-2	No	Yes	-		-		2.00E+00	P
Butyl Alcohol, t-	75-65-0	No	Yes	-		-		-	
Butyl Benzyl Phthalate	85-68-7	No	No	1.90E-03	P	-		2.00E-01	I
Butyl Formate, tert-	762-75-4	No	Yes	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Bromo-2-chloroethane, 1-	-		1	-	1	5.92E+03	2.38E+03	1.36E+09
Bromo-3-fluorobenzene, 1-	-		1	-	1	1.12E+04	8.96E+02	1.36E+09
Bromo-4-Ethylbenzene, 1-	-		1	-	1	1.54E+04	1.03E+02	1.36E+09
Bromoacetic acid	-		1	0.1	1	-	-	1.36E+09
Bromoacetophenone, 3-	-		1	0.1	1	-	-	1.36E+09
Bromobenzene	6.00E-02	I	1	-	1	8.37E+03	6.79E+02	1.36E+09
Bromochloromethane	4.00E-02	S	1	-	1	3.58E+03	4.04E+03	1.36E+09
Bromodichloromethane	-		1	-	1	3.97E+03	9.32E+02	1.36E+09
Bromodiphenyl Ether, p-	-		1	-	1	1.86E+05	2.69E+01	1.36E+09
Bromofluorobenzene, p-	-		1	-	1	1.14E+04	3.23E+02	1.36E+09
Bromoform	-		1	-	1	9.70E+03	9.15E+02	1.36E+09
Bromomethane	5.00E-03	I	1	-	1	1.40E+03	3.59E+03	1.36E+09
Bromophenol, p-	-		1	0.1	1	-	-	1.36E+09
Bromophos	-		1	-	1	1.24E+05	-	1.36E+09
Bromopyridine, 2-	-		1	0.1	1	-	-	1.36E+09
Bromotrichloromethane	-		1	-	1	1.30E+04	3.18E+02	1.36E+09
Bromoxynil	-		1	0.1	1	-	-	1.36E+09
Bromoxynil Octanoate	-		1	-	1	4.74E+05	-	1.36E+09
Butadiene, 1,3-	2.00E-03	I	1	-	1	8.66E+02	6.67E+02	1.36E+09
Butanediol, 2,3-	-		1	0.1	1	-	-	1.36E+09
Butanol	-		1	-	1	4.12E+04	1.47E+04	1.36E+09
Butanol, N-	-		1	-	1	3.00E+04	7.64E+03	1.36E+09
Butanone-2, 4-chloro-4,4-difluoro	-		1	0.1	1	-	-	1.36E+09
Butyl alcohol, sec-	3.00E+01	P	1	-	1	2.92E+04	2.13E+04	1.36E+09
Butyl Alcohol, t-	-		1	-	1	2.87E+04	-	1.36E+09
Butyl Benzyl Phthalate	-		1	0.1	1	-	-	1.36E+09
Butyl Formate, tert-	-		1	-	1	4.35E+03	1.70E+03	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Bromo-2-chloroethane, 1-	2.34E+00	-	2.24E+00	1.14E+00	-	-	-
Bromo-3-fluorobenzene, 1-	-	-	-	-	-	-	-
Bromo-4-Ethylbenzene, 1-	-	-	-	-	-	-	-
Bromoacetic acid	-	-	-	-	-	-	-
Bromoacetophenone, 3-	-	-	-	-	-	-	-
Bromobenzene	-	-	-	-	4.21E+02	-	4.23E+03
Bromochloromethane	-	-	-	-	-	-	1.21E+03
Bromodichloromethane	7.55E+01	-	2.43E+01	1.84E+01	1.05E+03	-	-
Bromodiphenyl Ether, p-	-	-	-	-	-	-	-
Bromofluorobenzene, p-	-	-	-	-	-	-	-
Bromoform	5.92E+02	-	2.00E+03	4.57E+02	1.05E+03	-	-
Bromomethane	-	-	-	-	7.37E+01	-	5.89E+01
Bromophenol, p-	-	-	-	-	-	-	-
Bromophos	-	-	-	-	2.63E+02	-	-
Bromopyridine, 2-	-	-	-	-	-	-	-
Bromotrichloromethane	-	-	-	-	-	-	-
Bromoxynil	-	-	-	-	1.05E+03	4.44E+03	-
Bromoxynil Octanoate	-	-	-	-	1.05E+03	-	-
Butadiene, 1,3-	1.38E+00	-	6.55E+00	1.14E+00	-	-	1.46E+01
Butanediol, 2,3-	-	-	-	-	-	-	-
Butanol	-	-	-	-	-	-	-
Butanol, N-	-	-	-	-	5.26E+03	-	-
Butanone-2, 4-chloro-4,4-difluoro	-	-	-	-	-	-	-
Butyl alcohol, sec-	-	-	-	-	1.05E+05	-	7.37E+06
Butyl Alcohol, t-	-	-	-	-	-	-	-
Butyl Benzyl Phthalate	2.46E+03	8.75E+03	-	1.92E+03	1.05E+04	4.44E+04	-
Butyl Formate, tert-	-	-	-	-	-	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Bromo-2-chloroethane, 1-	-	-	-	-	-	1.14E+00 ca
Bromo-3-fluorobenzene, 1-	-	-	-	-	-	
Bromo-4-Ethylbenzene, 1-	-	-	-	-	-	
Bromoacetic acid	-	-	-	-	-	
Bromoacetophenone, 3-	-	-	-	-	-	
Bromobenzene	3.83E+02	4.49E+03	-	4.23E+03	2.18E+03	3.83E+02 nc
Bromochloromethane	1.21E+03	-	-	1.21E+03	1.21E+03	1.21E+03 nc
Bromodichloromethane	1.05E+03	1.12E+04	-	-	1.12E+04	1.84E+01 ca*
Bromodiphenyl Ether, p-	-	-	-	-	-	
Bromofluorobenzene, p-	-	-	-	-	-	
Bromoform	1.05E+03	1.12E+04	-	-	1.12E+04	4.57E+02 ca**
Bromomethane	3.27E+01	7.86E+02	-	5.89E+01	5.48E+01	3.27E+01 nc
Bromophenol, p-	-	-	-	-	-	
Bromophos	2.63E+02	2.81E+03	-	-	2.81E+03	2.63E+02 nc
Bromopyridine, 2-	-	-	-	-	-	
Bromotrichloromethane	-	-	-	-	-	
Bromoxynil	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Bromoxynil Octanoate	1.05E+03	1.12E+04	-	-	1.12E+04	1.05E+03 nc
Butadiene, 1,3-	1.46E+01	-	-	1.46E+01	1.46E+01	1.14E+00 ca*
Butanediol, 2,3-	-	-	-	-	-	
Butanol	-	-	-	-	-	
Butanol, N-	5.26E+03	5.62E+04	-	-	5.62E+04	5.26E+03 nc
Butanone-2, 4-chloro-4,4-difluoro	-	-	-	-	-	
Butyl alcohol, sec-	1.04E+05	1.12E+06	-	7.37E+06	9.75E+05	1.04E+05 sat
Butyl Alcohol, t-	-	-	-	-	-	
Butyl Benzyl Phthalate	8.51E+03	1.12E+05	2.66E+05	-	7.90E+04	1.92E+03 ca**
Butyl Formate, tert-	-	-	-	-	-	

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Butylacetate	123-86-4	No	Yes	-		-		-	
Butylate	2008-41-5	No	Yes	-		-		5.00E-02	I
Butylated hydroxyanisole	25013-16-5	No	No	2.00E-04	C	5.70E-08	C	-	
Butylated hydroxytoluene	128-37-0	No	No	3.60E-03	P	-		3.00E-01	P
Butylbenzene, n-	104-51-8	No	Yes	-		-		5.00E-02	P
Butylbenzene, sec-	135-98-8	No	Yes	-		-		1.00E-01	S
Butylbenzene, tert-	98-06-6	No	Yes	-		-		1.00E-01	S
Butylchloride, t-	507-20-0	No	Yes	-		-		-	
Butyltin	NA	No	No	-		-		-	
Cacodylic Acid	75-60-5	No	No	-		-		2.00E-02	A
Cadmium (Diet)	7440-43-9	No	No	-		1.80E-03	I	1.00E-03	I
Calcium	7440-70-2	No	No	-		-		-	
Calcium Chlorate	10137-74-3	No	No	-		-		-	
Calcium Chromate	13765-19-0	Yes	No	5.00E-01	C	1.50E-01	C	2.00E-02	C
Caprolactam	105-60-2	No	No	-		-		5.00E-01	I
Captafol	2425-06-1	No	No	1.50E-01	C	4.30E-05	C	2.00E-03	I
Captan	133-06-2	No	No	2.30E-03	C	6.60E-07	C	1.30E-01	I
Carbaryl	63-25-2	No	No	-		-		1.00E-01	I
Carbazole	86-74-8	No	No	-		-		-	
Carbofuran	1563-66-2	No	No	-		-		5.00E-03	I
Carbon Disulfide	75-15-0	No	Yes	-		-		1.00E-01	I
Carbon Tetrachloride	56-23-5	No	Yes	7.00E-02	I	6.00E-06	I	4.00E-03	I
Carbonyl Sulfide	463-58-1	No	Yes	-		-		-	
Carbosulfan	55285-14-8	No	No	-		-		1.00E-02	I
Carboxin	5234-68-4	No	No	-		-		1.00E-01	I
Catechol	120-80-9	No	No	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Butylacetate	-		1	-	1	8.56E+03	1.79E+03	1.36E+09
Butylate	-		1	-	1	8.63E+04	-	1.36E+09
Butylated hydroxyanisole	-		1	0.1	1	-	-	1.36E+09
Butylated hydroxytoluene	-		1	0.1	1	-	-	1.36E+09
Butylbenzene, n-	-		1	-	1	8.14E+03	1.08E+02	1.36E+09
Butylbenzene, sec-	-		1	-	1	7.35E+03	1.45E+02	1.36E+09
Butylbenzene, tert-	-		1	-	1	7.36E+03	1.83E+02	1.36E+09
Butylchloride, t-	-		1	-	1	1.70E+03	1.33E+03	1.36E+09
Butyltin	-		1	0.1	1	-	-	1.36E+09
Cacodylic Acid	-		1	0.1	1	-	-	1.36E+09
Cadmium (Diet)	1.00E-05	A	0.025	0.001	1	-	-	1.36E+09
Calcium	-		1	-	1	-	-	1.36E+09
Calcium Chlorate	-		1	-	1	-	-	1.36E+09
Calcium Chromate	2.00E-04	C	0.025	-	1	-	-	1.36E+09
Caprolactam	2.20E-03	C	1	0.1	1	-	-	1.36E+09
Captafol	-		1	0.1	1	-	-	1.36E+09
Captan	-		1	0.1	1	-	-	1.36E+09
Carbaryl	-		1	0.1	1	-	-	1.36E+09
Carbazole	-		1	0.1	1	-	-	1.36E+09
Carbofuran	-		1	0.1	1	-	-	1.36E+09
Carbon Disulfide	7.00E-01	I	1	-	1	1.17E+03	7.38E+02	1.36E+09
Carbon Tetrachloride	1.00E-01	I	1	-	1	1.49E+03	4.58E+02	1.36E+09
Carbonyl Sulfide	1.00E-01	P	1	-	1	6.46E+02	5.89E+03	1.36E+09
Carbosulfan	-		1	0.1	1	-	-	1.36E+09
Carboxin	-		1	0.1	1	-	-	1.36E+09
Catechol	-		1	0.1	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Butylacetate	-	-	-	-	-	-	-
Butylate	-	-	-	-	2.63E+03	-	-
Butylated hydroxyanisole	2.34E+04	8.32E+04	5.41E+09	1.83E+04	-	-	-
Butylated hydroxytoluene	1.30E+03	4.62E+03	-	1.01E+03	1.58E+04	6.66E+04	-
Butylbenzene, n-	-	-	-	-	2.63E+03	-	-
Butylbenzene, sec-	-	-	-	-	5.26E+03	-	-
Butylbenzene, tert-	-	-	-	-	5.26E+03	-	-
Butylchloride, t-	-	-	-	-	-	-	-
Butyltin	-	-	-	-	-	-	-
Cacodylic Acid	-	-	-	-	1.05E+03	4.44E+03	-
Cadmium (Diet)	-	-	1.71E+05	1.71E+05	5.26E+01	5.55E+02	1.14E+05
Calcium	-	-	-	-	-	-	-
Calcium Chlorate	-	-	-	-	-	-	-
Calcium Chromate	2.06E+00	-	7.42E+02	2.06E+00	1.05E+03	-	2.29E+06
Caprolactam	-	-	-	-	2.63E+04	1.11E+05	2.52E+07
Captafol	3.12E+01	1.11E+02	7.17E+06	2.43E+01	1.05E+02	4.44E+02	-
Captan	2.03E+03	7.23E+03	4.67E+08	1.59E+03	6.84E+03	2.88E+04	-
Carbaryl	-	-	-	-	5.26E+03	2.22E+04	-
Carbazole	-	-	-	-	-	-	-
Carbofuran	-	-	-	-	2.63E+02	1.11E+03	-
Carbon Disulfide	-	-	-	-	5.26E+03	-	6.88E+03
Carbon Tetrachloride	6.68E+01	-	5.65E+01	3.06E+01	2.11E+02	-	1.26E+03
Carbonyl Sulfide	-	-	-	-	-	-	5.44E+02
Carbosulfan	-	-	-	-	5.26E+02	2.22E+03	-
Carboxin	-	-	-	-	5.26E+03	2.22E+04	-
Catechol	-	-	-	-	-	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Butylacetate	-	-	-	-	-	
Butylate	2.63E+03	2.81E+04	-	-	2.81E+04	2.63E+03 nc
Butylated hydroxyanisole	-	-	-	-	-	1.83E+04 ca
Butylated hydroxytoluene	1.28E+04	1.68E+05	3.99E+05	-	1.18E+05	1.01E+03 ca*
Butylbenzene, n-	2.63E+03	2.81E+04	-	-	2.81E+04	2.63E+03 sat
Butylbenzene, sec-	5.26E+03	5.62E+04	-	-	5.62E+04	5.26E+03 sat
Butylbenzene, tert-	5.26E+03	5.62E+04	-	-	5.62E+04	5.26E+03 sat
Butylchloride, t-	-	-	-	-	-	
Butyltin	-	-	-	-	-	
Cacodylic Acid	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Cadmium (Diet)	4.81E+01	5.62E+02	3.32E+03	1.14E+05	4.78E+02	4.81E+01 nc
Calcium	-	-	-	-	-	
Calcium Chlorate	-	-	-	-	-	
Calcium Chromate	1.05E+03	1.12E+04	-	2.29E+06	1.12E+04	2.06E+00 ca
Caprolactam	2.13E+04	2.81E+05	6.65E+05	2.52E+07	1.96E+05	2.13E+04 nc
Captafol	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	2.43E+01 ca**
Captan	5.53E+03	7.30E+04	1.73E+05	-	5.13E+04	1.59E+03 ca**
Carbaryl	4.25E+03	5.62E+04	1.33E+05	-	3.95E+04	4.25E+03 nc
Carbazole	-	-	-	-	-	
Carbofuran	2.13E+02	2.81E+03	6.65E+03	-	1.97E+03	2.13E+02 nc
Carbon Disulfide	2.98E+03	5.62E+04	-	6.88E+03	6.13E+03	2.98E+03 sat
Carbon Tetrachloride	1.80E+02	2.25E+03	-	1.26E+03	8.07E+02	3.06E+01 ca**
Carbonyl Sulfide	5.44E+02	-	-	5.44E+02	5.44E+02	5.44E+02 nc
Carbosulfan	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	4.25E+02 nc
Carboxin	4.25E+03	5.62E+04	1.33E+05	-	3.95E+04	4.25E+03 nc
Catechol	-	-	-	-	-	

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Ceric oxide	1306-38-3	No	No	-		-		-	
Cerium, Stable	7440-45-1	No	No	-		-		-	
Chloral	75-87-6	No	Yes	-		-		-	
Chloral Hydrate	302-17-0	No	Yes	-		-		1.00E-01	I
Chloramben	133-90-4	No	No	-		-		1.50E-02	I
Chloramine	127-65-1	No	No	-		-		-	
Chloranil	118-75-2	No	No	4.03E-01	H	-		-	
Chlorate (ClO3) as	14866-68-3	No	No	-		-		-	
Chlordane	12789-03-6	No	Yes	3.50E-01	I	1.00E-04	I	5.00E-04	I
Chlordane (alpha)	5103-71-9	No	Yes	-		-		-	
Chlordane (gamma)	5103-74-2	No	Yes	-		-		-	
Chlordecone (Kepone)	143-50-0	No	No	1.00E+01	I	4.60E-03	C	3.00E-04	I
Chlorfenvinphos	470-90-6	No	No	-		-		7.00E-04	A
Chloride	16887-00-6	No	No	-		-		-	
Chlorimuron, Ethyl-	90982-32-4	No	No	-		-		2.00E-02	I
Chlorinated Hydrocarbons (total)	NA	No	No	-		-		-	
Chlorine	7782-50-5	No	Yes	-		-		1.00E-01	I
Chlorine Dioxide	10049-04-4	No	Yes	-		-		3.00E-02	I
Chlorite	14998-27-7	No	No	-		-		-	
Chlorite (Sodium Salt)	7758-19-2	No	No	-		-		3.00E-02	I
Chloro-2-methylphenol, 4-	1570-64-5	No	No	-		-		-	
Chloro-4-methylphenol	35421-08-0	No	No	-		-		-	
Chloro-1,1-difluoroethane, 1-	75-68-3	No	Yes	-		-		-	
Chloro-1,3-butadiene, 2-	126-99-8	No	Yes	-		3.00E-04	I	2.00E-02	H
Chloro-2-methylaniline HCl, 4-	3165-93-3	No	No	4.60E-01	H	-		-	
Chloro-2-methylaniline, 4-	95-69-2	No	No	1.00E-01	P	7.70E-05	C	3.00E-03	S

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Ceric oxide	9.00E-04	I	1	-	1	-	-	1.36E+09
Cerium, Stable	-		1	-	1	-	-	1.36E+09
Chloral	-		1	-	1	1.55E+05	3.38E+03	1.36E+09
Chloral Hydrate	-		1	-	1	1.45E+05	-	1.36E+09
Chloramben	-		1	0.1	1	-	-	1.36E+09
Chloramine	-		1	-	1	-	-	1.36E+09
Chloranil	-		1	0.1	1	-	-	1.36E+09
Chlorate (ClO3) as	-		1	-	1	-	-	1.36E+09
Chlordane	7.00E-04	I	1	0.04	1	9.02E+05	-	1.36E+09
Chlordane (alpha)	-		1	-	1	1.49E+06	-	1.36E+09
Chlordane (gamma)	-		1	-	1	1.49E+06	-	1.36E+09
Chlordecone (Kepone)	-		1	0.1	1	-	-	1.36E+09
Chlorfenvinphos	-		1	0.1	1	-	-	1.36E+09
Chloride	-		1	-	1	-	-	1.36E+09
Chlorimuron, Ethyl-	-		1	0.1	1	-	-	1.36E+09
Chlorinated Hydrocarbons (total)	-		1	0.1	1	-	-	1.36E+09
Chlorine	1.45E-04	A	1	-	1	1.22E+03	2.78E+03	1.36E+09
Chlorine Dioxide	2.00E-04	I	1	-	1	-	-	1.36E+09
Chlorite	-		1	-	1	-	-	1.36E+09
Chlorite (Sodium Salt)	-		1	-	1	-	-	1.36E+09
Chloro-2-methylphenol, 4-	-		1	0.1	1	-	-	1.36E+09
Chloro-4-methylphenol	-		1	0.1	1	-	-	1.36E+09
Chloro-1,1-difluoroethane, 1-	5.00E+01	I	1	-	1	1.03E+03	1.15E+03	1.36E+09
Chloro-1,3-butadiene, 2-	2.00E-02	I	1	-	1	1.08E+03	7.86E+02	1.36E+09
Chloro-2-methylaniline HCl, 4-	-		1	0.1	1	-	-	1.36E+09
Chloro-2-methylaniline, 4-	-		1	0.1	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Ceric oxide	-	-	-	-	-	-	1.03E+07
Cerium, Stable	-	-	-	-	-	-	-
Chloral	-	-	-	-	-	-	-
Chloral Hydrate	-	-	-	-	5.26E+03	-	-
Chloramben	-	-	-	-	7.90E+02	3.33E+03	-
Chloramine	-	-	-	-	-	-	-
Chloranil	1.16E+01	4.13E+01	-	9.06E+00	-	-	-
Chlorate (ClO3) as	-	-	-	-	-	-	-
Chlordane	1.34E+01	1.19E+02	2.04E+03	1.19E+01	2.63E+01	2.77E+02	5.31E+03
Chlordane (alpha)	-	-	-	-	-	-	-
Chlordane (gamma)	-	-	-	-	-	-	-
Chlordecone (Kepone)	4.68E-01	1.66E+00	6.70E+04	3.65E-01	1.58E+01	6.66E+01	-
Chlorfenvinphos	-	-	-	-	3.69E+01	1.55E+02	-
Chloride	-	-	-	-	-	-	-
Chlorimuron, Ethyl-	-	-	-	-	1.05E+03	4.44E+03	-
Chlorinated Hydrocarbons (total)	-	-	-	-	-	-	-
Chlorine	-	-	-	-	5.26E+03	-	1.49E+00
Chlorine Dioxide	-	-	-	-	1.58E+03	-	2.29E+06
Chlorite	-	-	-	-	-	-	-
Chlorite (Sodium Salt)	-	-	-	-	1.58E+03	-	-
Chloro-2-methylphenol, 4-	-	-	-	-	-	-	-
Chloro-4-methylphenol	-	-	-	-	-	-	-
Chloro-1,1-difluoroethane, 1-	-	-	-	-	-	-	4.33E+05
Chloro-1,3-butadiene, 2-	-	-	8.15E-01	8.15E-01	1.05E+03	-	1.82E+02
Chloro-2-methylaniline HCl, 4-	1.02E+01	3.62E+01	-	7.94E+00	-	-	-
Chloro-2-methylaniline, 4-	4.68E+01	1.66E+02	4.00E+06	3.65E+01	1.58E+02	6.66E+02	-

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Ceric oxide	1.03E+07	-	-	1.03E+07	1.03E+07	1.03E+07 max
Cerium, Stable	-	-	-	-	-	
Chloral	-	-	-	-	-	
Chloral Hydrate	5.26E+03	5.62E+04	-	-	5.62E+04	5.26E+03 nc
Chloramben	6.38E+02	8.42E+03	1.99E+04	-	5.92E+03	6.38E+02 nc
Chloramine	-	-	-	-	-	
Chloranil	-	-	-	-	-	9.06E+00 ca
Chlorate (ClO3) as	-	-	-	-	-	
Chlordane	2.39E+01	2.81E+02	1.66E+03	5.31E+03	2.30E+02	1.19E+01 ca**
Chlordane (alpha)	-	-	-	-	-	
Chlordane (gamma)	-	-	-	-	-	
Chlordecone (Kepone)	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	3.65E-01 ca*
Chlorfenvinphos	2.98E+01	3.93E+02	9.31E+02	-	2.76E+02	2.98E+01 nc
Chloride	-	-	-	-	-	
Chlorimuron, Ethyl-	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Chlorinated Hydrocarbons (total)	-	-	-	-	-	
Chlorine	1.49E+00	5.62E+04	-	1.49E+00	1.49E+00	1.49E+00 nc
Chlorine Dioxide	1.58E+03	1.68E+04	-	2.29E+06	1.67E+04	1.58E+03 nc
Chlorite	-	-	-	-	-	
Chlorite (Sodium Salt)	1.58E+03	1.68E+04	-	-	1.68E+04	1.58E+03 nc
Chloro-2-methylphenol, 4-	-	-	-	-	-	
Chloro-4-methylphenol	-	-	-	-	-	
Chloro-1,1-difluoroethane, 1-	4.33E+05	-	-	4.33E+05	4.33E+05	4.33E+05 sat
Chloro-1,3-butadiene, 2-	1.55E+02	1.12E+04	-	1.82E+02	1.79E+02	8.15E-01 ca
Chloro-2-methylaniline HCl, 4-	-	-	-	-	-	7.94E+00 ca
Chloro-2-methylaniline, 4-	1.28E+02	1.68E+03	3.99E+03	-	1.18E+03	3.65E+01 ca**

Site-specific

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Chloro-6-fluorophenol, 2-	2040-90-6	No	No	-		-		-	
Chloroacetaldehyde, 2-	107-20-0	No	Yes	2.70E-01	X	-		-	
Chloroacetamide	79-07-2	No	No	-		-		-	
Chloroacetic Acid	79-11-8	No	No	-		-		-	
Chloroacetophenone, 2-	532-27-4	No	No	-		-		-	
Chloroaniline	27134-26-5	No	No	-		-		-	
Chloroaniline, 3-	108-42-9	No	No	-		-		-	
Chloroaniline, p-	106-47-8	No	No	2.00E-01	P	-		4.00E-03	I
Chlorobenzene	108-90-7	No	Yes	-		-		2.00E-02	I
Chlorobenzene sulfonic acid, p-	98-66-8	No	No	-		-		-	
Chlorobenzenes (total)	NA	No	No	-		-		-	
Chlorobenzilate	510-15-6	No	No	1.10E-01	C	3.10E-05	C	2.00E-02	I
Chlorobenzoic Acid, 2-	118-91-2	No	No	-		-		-	
Chlorobenzoic Acid, p-	74-11-3	No	No	-		-		3.00E-02	S
Chlorobenzotrifluoride, 3-nitro-4-	121-17-5	No	Yes	-		-		-	
Chlorobenzotrifluoride, 4-	98-56-6	No	Yes	-		-		3.00E-03	P
Chlorobiphenyl, p-	2051-62-9	No	Yes	-		-		-	
Chlorobutane, 1-	109-69-3	No	Yes	-		-		4.00E-02	P
Chlorobutane, 2-	78-86-4	No	Yes	-		-		-	
Chlorocyclopentadiene	41851-50-7	No	Yes	-		-		-	
Chlorodibromoethane	73506-94-2	No	No	-		-		-	
Chlorodifluoromethane	75-45-6	No	Yes	-		-		-	
Chloroethanol, 2-	107-07-3	No	Yes	-		-		2.00E-02	P
Chloroethylvinyl ether, 2-	110-75-8	No	Yes	-		-		-	
Chloroform	67-66-3	No	Yes	3.10E-02	C	2.30E-05	I	1.00E-02	I
Chloromethane	74-87-3	No	Yes	-		-		-	
Chloromethyl Methyl Ether	107-30-2	No	Yes	2.40E+00	C	6.90E-04	C	-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Chloro-6-fluorophenol, 2-	-		1	0.1	1	-	-	1.36E+09
Chloroacetaldehyde, 2-	-		1	-	1	1.62E+04	1.18E+04	1.36E+09
Chloroacetamide	-		1	0.1	1	-	-	1.36E+09
Chloroacetic Acid	-		1	0.1	1	-	-	1.36E+09
Chloroacetophenone, 2-	3.00E-05	I	1	0.1	1	-	-	1.36E+09
Chloroaniline	-		1	0.1	1	-	-	1.36E+09
Chloroaniline, 3-	-		1	0.1	1	-	-	1.36E+09
Chloroaniline, p-	-		1	0.1	1	-	-	1.36E+09
Chlorobenzene	5.00E-02	P	1	-	1	6.45E+03	7.61E+02	1.36E+09
Chlorobenzene sulfonic acid, p-	-		1	0.1	1	-	-	1.36E+09
Chlorobenzenes (total)	-		1	0.1	1	-	-	1.36E+09
Chlorobenzilate	-		1	0.1	1	-	-	1.36E+09
Chlorobenzoic Acid, 2-	-		1	0.1	-	-	-	1.36E+09
Chlorobenzoic Acid, p-	-		1	0.1	1	-	-	1.36E+09
Chlorobenzotrifluoride, 3-nitro-4-	-		1	-	1	1.55E+05	5.47E+02	1.36E+09
Chlorobenzotrifluoride, 4-	3.00E-01	P	1	-	1	6.76E+03	2.90E+02	1.36E+09
Chlorobiphenyl, p-	-		1	-	1	1.29E+05	-	1.36E+09
Chlorobutane, 1-	-		1	-	1	1.76E+03	7.28E+02	1.36E+09
Chlorobutane, 2-	-		1	-	1	1.46E+03	6.51E+02	1.36E+09
Chlorocyclopentadiene	-		1	-	1	1.88E+03	1.01E+03	1.36E+09
Chlorodibromoethane	-		1	0.1	1	-	-	1.36E+09
Chlorodifluoromethane	5.00E+01	I	1	-	1	9.38E+02	1.68E+03	1.36E+09
Chloroethanol, 2-	-		1	-	1	7.81E+04	1.11E+05	1.36E+09
Chloroethylvinyl ether, 2-	-		1	-	1	1.60E+03	1.17E+02	1.36E+09
Chloroform	9.77E-02	A	1	-	1	2.63E+03	2.54E+03	1.36E+09
Chloromethane	9.00E-02	I	1	-	1	1.18E+03	1.32E+03	1.36E+09
Chloromethyl Methyl Ether	-		1	-	1	5.33E+03	9.32E+03	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Chloro-6-fluorophenol, 2-	-	-	-	-	-	-	-
Chloroacetaldehyde, 2-	1.73E+01	-	-	1.73E+01	-	-	-
Chloroacetamide	-	-	-	-	-	-	-
Chloroacetic Acid	-	-	-	-	-	-	-
Chloroacetophenone, 2-	-	-	-	-	-	-	3.43E+05
Chloroaniline	-	-	-	-	-	-	-
Chloroaniline, 3-	-	-	-	-	-	-	-
Chloroaniline, p-	2.34E+01	8.32E+01	-	1.83E+01	2.11E+02	8.87E+02	-
Chlorobenzene	-	-	-	-	1.05E+03	-	2.72E+03
Chlorobenzene sulfonic acid, p-	-	-	-	-	-	-	-
Chlorobenzenes (total)	-	-	-	-	-	-	-
Chlorobenzilate	4.25E+01	1.51E+02	9.94E+06	3.32E+01	1.05E+03	4.44E+03	-
Chlorobenzoic Acid, 2-	-	-	-	-	-	-	-
Chlorobenzoic Acid, p-	-	-	-	-	1.58E+03	6.66E+03	-
Chlorobenzotrifluoride, 3-nitro-4-	-	-	-	-	-	-	-
Chlorobenzotrifluoride, 4-	-	-	-	-	1.58E+02	-	1.71E+04
Chlorobiphenyl, p-	-	-	-	-	-	-	-
Chlorobutane, 1-	-	-	-	-	2.11E+03	-	-
Chlorobutane, 2-	-	-	-	-	-	-	-
Chlorocyclopentadiene	-	-	-	-	-	-	-
Chlorodibromoethane	-	-	-	-	-	-	-
Chlorodifluoromethane	-	-	-	-	-	-	3.95E+05
Chloroethanol, 2-	-	-	-	-	1.05E+03	-	-
Chloroethylvinyl ether, 2-	-	-	-	-	-	-	-
Chloroform	1.51E+02	-	2.59E+01	2.21E+01	5.26E+02	-	2.16E+03
Chloromethane	-	-	-	-	-	-	8.91E+02
Chloromethyl Methyl Ether	1.95E+00	-	1.75E+00	9.22E-01	-	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Chloro-6-fluorophenol, 2-	-	-	-	-	-	
Chloroacetaldehyde, 2-	-	-	-	-	-	1.73E+01 ca
Chloroacetamide	-	-	-	-	-	
Chloroacetic Acid	-	-	-	-	-	
Chloroacetophenone, 2-	3.43E+05	-	-	3.43E+05	3.43E+05	3.43E+05 max
Chloroaniline	-	-	-	-	-	
Chloroaniline, 3-	-	-	-	-	-	
Chloroaniline, p-	1.70E+02	2.25E+03	5.32E+03	-	1.58E+03	1.83E+01 ca**
Chlorobenzene	7.59E+02	1.12E+04	-	2.72E+03	2.19E+03	7.59E+02 nc
Chlorobenzene sulfonic acid, p-	-	-	-	-	-	
Chlorobenzenes (total)	-	-	-	-	-	
Chlorobenzilate	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	3.32E+01 ca*
Chlorobenzoic Acid, 2-	-	-	-	-	-	
Chlorobenzoic Acid, p-	1.28E+03	1.68E+04	3.99E+04	-	1.18E+04	1.28E+03 nc
Chlorobenzotrifluoride, 3-nitro-4-	-	-	-	-	-	
Chlorobenzotrifluoride, 4-	1.56E+02	1.68E+03	-	1.71E+04	1.53E+03	1.56E+02 nc
Chlorobiphenyl, p-	-	-	-	-	-	
Chlorobutane, 1-	2.11E+03	2.25E+04	-	-	2.25E+04	2.11E+03 sat
Chlorobutane, 2-	-	-	-	-	-	
Chlorocyclopentadiene	-	-	-	-	-	
Chlorodibromoethane	-	-	-	-	-	
Chlorodifluoromethane	3.95E+05	-	-	3.95E+05	3.95E+05	3.95E+05 sat
Chloroethanol, 2-	1.05E+03	1.12E+04	-	-	1.12E+04	1.05E+03 nc
Chloroethylvinyl ether, 2-	-	-	-	-	-	
Chloroform	4.23E+02	5.62E+03	-	2.16E+03	1.56E+03	2.21E+01 ca*
Chloromethane	8.91E+02	-	-	8.91E+02	8.91E+02	8.91E+02 nc
Chloromethyl Methyl Ether	-	-	-	-	-	9.22E-01 ca

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Chloronaphthalene, alpha-	90-13-1	No	Yes	-		-		-	
Chloronitrobenzene, o-	88-73-3	No	No	3.00E-01	P	-		3.00E-03	P
Chloronitrobenzene, p-	100-00-5	No	No	6.30E-03	P	-		1.00E-03	P
Chlorooctadecane, 1-	3386-33-2	No	Yes	-		-		-	
Chlorophenol, 2-	95-57-8	No	Yes	-		-		5.00E-03	I
Chlorophenol, 3-	108-43-0	No	No	-		-		-	
Chlorophenol, 4-	106-48-9	No	No	-		-		-	
Chlorophenols (total)	NA	No	No	-		-		-	
Chlorophenyl phenyl ether, 4-	7005-72-3	No	Yes	-		-		-	
Chlorophenyl Methyl Sulfide, p-	123-09-1	No	Yes	-		-		-	
Chlorophenyl Methyl Sulfoxide	934-73-6	No	No	-		-		-	
Chloropicrin	76-06-2	No	Yes	-		-		-	
Chloropropane, 2-	75-29-6	No	Yes	-		-		-	
Chlorothalonil	1897-45-6	No	No	3.10E-03	C	8.90E-07	C	1.50E-02	I
Chlorotoluene, o-	95-49-8	No	Yes	-		-		2.00E-02	I
Chlorotoluene, p-	106-43-4	No	Yes	-		-		2.00E-02	S
Chlorozotocin	54749-90-5	No	No	2.40E+02	C	6.90E-02	C	-	
Chlorpropham	101-21-3	No	No	-		-		2.00E-01	I
Chlorpyrifos	2921-88-2	No	No	-		-		1.00E-03	A
Chlorpyrifos Methyl	5598-13-0	No	No	-		-		1.00E-02	H
Chlorsulfuron	64902-72-3	No	No	-		-		5.00E-02	I
Chlorthiophos	60238-56-4	No	No	-		-		8.00E-04	H
Chromium(III), Insoluble Salts	16065-83-1	No	No	-		-		1.50E+00	I
Chromium(VI)	18540-29-9	Yes	No	5.00E-01	J	8.40E-02	S	3.00E-03	I
Chromium, Total	7440-47-3	No	No	-		-		-	
Cobalt	7440-48-4	No	No	-		9.00E-03	P	3.00E-04	P
Complex Mixtures of Aliphatic and Aromatic Hydrocarbons	NA	No	No	-		-		-	
Copper	7440-50-8	No	No	-		-		4.00E-02	H
Creosote	8001-58-9	No	No	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Chloronaphthalene, alpha-	-		1	-	1	7.59E+04	2.66E+02	1.36E+09
Chloronitrobenzene, o-	1.00E-05	S	1	0.1	1	-	-	1.36E+09
Chloronitrobenzene, p-	6.00E-04	P	1	0.1	1	-	-	1.36E+09
Chlorooctadecane, 1-	-		1	-	-	2.48E+04	-	1.36E+09
Chlorophenol, 2-	-		1	-	1	1.24E+05	2.19E+04	1.36E+09
Chlorophenol, 3-	-		1	0.1	1	-	-	1.36E+09
Chlorophenol, 4-	-		1	0.1	1	-	-	1.36E+09
Chlorophenols (total)	-		1	0.1	1	-	-	1.36E+09
Chlorophenyl phenyl ether, 4-	-		1	-	1	2.15E+05	-	1.36E+09
Chlorophenyl Methyl Sulfide, p-	-		1	-	1	6.91E+04	5.23E+02	1.36E+09
Chlorophenyl Methyl Sulfoxide	-		1	0.1	1	-	-	1.36E+09
Chloropicrin	4.00E-04	C	1	-	1	4.68E+03	6.17E+02	1.36E+09
Chloropropane, 2-	-		1	-	1	1.30E+03	1.32E+03	1.36E+09
Chlorothalonil	-		1	0.1	1	-	-	1.36E+09
Chlorotoluene, o-	-		1	-	1	8.12E+03	9.07E+02	1.36E+09
Chlorotoluene, p-	-		1	-	1	7.29E+03	2.53E+02	1.36E+09
Chlorozotocin	-		1	0.1	1	-	-	1.36E+09
Chlorpropham	-		1	0.1	1	-	-	1.36E+09
Chlorpyrifos	-		1	0.1	1	-	-	1.36E+09
Chlorpyrifos Methyl	-		1	0.1	1	-	-	1.36E+09
Chlorsulfuron	-		1	0.1	1	-	-	1.36E+09
Chlorthiophos	-		1	0.1	1	-	-	1.36E+09
Chromium(III), Insoluble Salts	-		0.013	-	1	-	-	1.36E+09
Chromium(VI)	1.00E-04	I	0.025	-	1	-	-	1.36E+09
Chromium, Total	-		0.013	-	1	-	-	1.36E+09
Cobalt	6.00E-06	P	1	-	1	-	-	1.36E+09
Complex Mixtures of Aliphatic and Aromatic Hydrocarbons	-		1	0.1	1	-	-	1.36E+09
Copper	-		1	-	1	-	-	1.36E+09
Creosote	-		1	0.1	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Chloronaphthalene, alpha-	-	-	-	-	-	-	-
Chloronitrobenzene, o-	1.56E+01	5.54E+01	-	1.22E+01	1.58E+02	6.66E+02	1.14E+05
Chloronitrobenzene, p-	7.43E+02	2.64E+03	-	5.80E+02	5.26E+01	2.22E+02	6.87E+06
Chlorooctadecane, 1-	-	-	-	-	-	-	-
Chlorophenol, 2-	-	-	-	-	2.63E+02	-	-
Chlorophenol, 3-	-	-	-	-	-	-	-
Chlorophenol, 4-	-	-	-	-	-	-	-
Chlorophenols (total)	-	-	-	-	-	-	-
Chlorophenyl phenyl ether, 4-	-	-	-	-	-	-	-
Chlorophenyl Methyl Sulfide, p-	-	-	-	-	-	-	-
Chlorophenyl Methyl Sulfoxide	-	-	-	-	-	-	-
Chloropicrin	-	-	-	-	-	-	1.58E+01
Chloropropane, 2-	-	-	-	-	-	-	-
Chlorothalonil	1.51E+03	5.37E+03	3.46E+08	1.18E+03	7.90E+02	3.33E+03	-
Chlorotoluene, o-	-	-	-	-	1.05E+03	-	-
Chlorotoluene, p-	-	-	-	-	1.05E+03	-	-
Chlorozotocin	1.95E-02	6.93E-02	4.47E+03	1.52E-02	-	-	-
Chlorpropham	-	-	-	-	1.05E+04	4.44E+04	-
Chlorpyrifos	-	-	-	-	5.26E+01	2.22E+02	-
Chlorpyrifos Methyl	-	-	-	-	5.26E+02	2.22E+03	-
Chlorsulfuron	-	-	-	-	2.63E+03	1.11E+04	-
Chlorthiophos	-	-	-	-	4.21E+01	1.77E+02	-
Chromium(III), Insoluble Salts	-	-	-	-	7.90E+04	-	-
Chromium(VI)	2.06E+00	-	1.33E+03	2.06E+00	1.58E+02	-	1.14E+06
Chromium, Total	-	-	-	-	-	-	-
Cobalt	-	-	3.43E+04	3.43E+04	1.58E+01	-	6.87E+04
Complex Mixtures of Aliphatic and Aromatic Hydrocarbons	-	-	-	-	-	-	-
Copper	-	-	-	-	2.11E+03	-	-
Creosote	-	-	-	-	-	-	-

Site-specific

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Chloronaphthalene, alpha-	-	-	-	-	-	
Chloronitrobenzene, o-	1.28E+02	1.68E+03	3.99E+03	1.14E+05	1.17E+03	1.22E+01 ca*
Chloronitrobenzene, p-	4.25E+01	5.62E+02	1.33E+03	6.87E+06	3.95E+02	4.25E+01 nc
Chlorooctadecane, 1-	-	-	-	-	-	
Chlorophenol, 2-	2.63E+02	2.81E+03	-	-	2.81E+03	2.63E+02 nc
Chlorophenol, 3-	-	-	-	-	-	
Chlorophenol, 4-	-	-	-	-	-	
Chlorophenols (total)	-	-	-	-	-	
Chlorophenyl phenyl ether, 4-	-	-	-	-	-	
Chlorophenyl Methyl Sulfide, p-	-	-	-	-	-	
Chlorophenyl Methyl Sulfoxide	-	-	-	-	-	
Chloropicrin	1.58E+01	-	-	1.58E+01	1.58E+01	1.58E+01 nc
Chloropropane, 2-	-	-	-	-	-	
Chlorothalonil	6.38E+02	8.42E+03	1.99E+04	-	5.92E+03	6.38E+02 nc
Chlorotoluene, o-	1.05E+03	1.12E+04	-	-	1.12E+04	1.05E+03 sat
Chlorotoluene, p-	1.05E+03	1.12E+04	-	-	1.12E+04	1.05E+03 sat
Chlorozotocin	-	-	-	-	-	1.52E-02 ca
Chlorpropham	8.51E+03	1.12E+05	2.66E+05	-	7.90E+04	8.51E+03 nc
Chlorpyrifos	4.25E+01	5.62E+02	1.33E+03	-	3.95E+02	4.25E+01 nc
Chlorpyrifos Methyl	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	4.25E+02 nc
Chlorsulfuron	2.13E+03	2.81E+04	6.65E+04	-	1.97E+04	2.13E+03 nc
Chlorthiophos	3.40E+01	4.49E+02	1.06E+03	-	3.16E+02	3.40E+01 nc
Chromium(III), Insoluble Salts	7.90E+04	8.42E+05	-	-	8.42E+05	7.90E+04 nc
Chromium(VI)	1.58E+02	1.68E+03	-	1.14E+06	1.68E+03	2.06E+00 ca*
Chromium, Total	-	-	-	-	-	
Cobalt	1.58E+01	1.68E+02	-	6.87E+04	1.68E+02	1.58E+01 nc
Complex Mixtures of Aliphatic and Aromatic Hydrocarbons	-	-	-	-	-	
Copper	2.11E+03	2.25E+04	-	-	2.25E+04	2.11E+03 nc
Creosote	-	-	-	-	-	

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Cresol, m-	108-39-4	No	No	-		-		5.00E-02	I
Cresol, o-	95-48-7	No	No	-		-		5.00E-02	I
Cresol, p-	106-44-5	No	No	-		-		1.00E-01	A
Cresol, p-chloro-m-	59-50-7	No	No	-		-		1.00E-01	A
Cresols	1319-77-3	No	No	-		-		1.00E-01	A
Crotonaldehyde	4170-30-3	No	Yes	-		-		-	
Crotonaldehyde, trans-	123-73-9	No	Yes	1.90E+00	H	-		1.00E-03	P
Cumene	98-82-8	No	Yes	-		-		1.00E-01	I
Cupferron	135-20-6	No	No	2.20E-01	C	6.30E-05	C	-	
Cyanazine	21725-46-2	No	No	8.40E-01	H	-		2.00E-03	H
Cyclohexane	110-82-7	No	Yes	-		-		-	
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	No	No	2.30E-02	H	-		-	
Cyclohexanone	108-94-1	No	Yes	-		-		5.00E+00	I
Cyclohexene	110-83-8	No	Yes	-		-		5.00E-03	P
Cyclohexylamine	108-91-8	No	Yes	-		-		2.00E-01	I
Cyclopentadiene	542-92-7	No	Yes	-		-		-	
Cyhalothrin	68085-85-8	No	No	-		-		5.00E-03	I
Cypermethrin	52315-07-8	No	No	-		-		1.00E-02	I
Cyromazine	66215-27-8	No	No	-		-		7.50E-03	I
Barium Cyanide	542-62-1	No	No	-		-		-	
Calcium Cyanide	592-01-8	No	No	-		-		1.00E-03	I
Copper Cyanide	544-92-3	No	No	-		-		5.00E-03	I
Cyanide (CN-)	57-12-5	No	Yes	-		-		6.00E-04	I
Cyanide (total complex)	NA	No	No	-		-		-	
Cyanogen	460-19-5	No	Yes	-		-		1.00E-03	I
Cyanogen Bromide	506-68-3	No	Yes	-		-		9.00E-02	I
Cyanogen Chloride	506-77-4	No	Yes	-		-		5.00E-02	I
Hydrogen Cyanide	74-90-8	No	Yes	-		-		6.00E-04	I
Potassium Cyanide	151-50-8	No	No	-		-		2.00E-03	I

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Cresol, m-	6.00E-01	C	1	0.1	1	-	-	1.36E+09
Cresol, o-	6.00E-01	C	1	0.1	1	-	-	1.36E+09
Cresol, p-	6.00E-01	C	1	0.1	1	-	-	1.36E+09
Cresol, p-chloro-m-	-		1	0.1	1	-	-	1.36E+09
Cresols	6.00E-01	C	1	0.1	1	-	-	1.36E+09
Crotonaldehyde	-		1	-	1	1.89E+04	2.01E+04	1.36E+09
Crotonaldehyde, trans-	-		1	-	1	1.89E+04	1.66E+04	1.36E+09
Cumene	4.00E-01	I	1	-	1	6.21E+03	2.68E+02	1.36E+09
Cupferron	-		1	0.1	1	-	-	1.36E+09
Cyanazine	-		1	0.1	1	-	-	1.36E+09
Cyclohexane	6.00E+00	I	1	-	1	1.04E+03	1.17E+02	1.36E+09
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	-		1	0.1	1	-	-	1.36E+09
Cyclohexanone	7.00E-01	P	1	-	1	4.17E+04	5.11E+03	1.36E+09
Cyclohexene	1.00E+00	S	1	-	1	1.46E+03	2.83E+02	1.36E+09
Cyclohexylamine	-		1	-	1	7.46E+04	2.93E+05	1.36E+09
Cyclopentadiene	-		1	-	1	1.49E+03	1.34E+03	1.36E+09
Cyhalothrin	-		1	0.1	1	-	-	1.36E+09
Cypermethrin	-		1	0.1	1	-	-	1.36E+09
Cyromazine	-		1	0.1	1	-	-	1.36E+09
Barium Cyanide	-		0.07	-	1	-	-	1.36E+09
Calcium Cyanide	-		1	-	1	-	-	1.36E+09
Copper Cyanide	-		1	-	1	-	-	1.36E+09
Cyanide (CN-)	8.00E-04	S	1	-	1	3.49E+03	9.72E+05	1.36E+09
Cyanide (total complex)	-		1	-	1	-	-	1.36E+09
Cyanogen	-		1	-	1	-	-	1.36E+09
Cyanogen Bromide	-		1	-	1	-	-	1.36E+09
Cyanogen Chloride	-		1	-	1	-	-	1.36E+09
Hydrogen Cyanide	8.00E-04	I	1	-	1	5.22E+04	1.00E+07	1.36E+09
Potassium Cyanide	-		1	-	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Cresol, m-	-	-	-	-	2.63E+03	1.11E+04	6.87E+09
Cresol, o-	-	-	-	-	2.63E+03	1.11E+04	6.87E+09
Cresol, p-	-	-	-	-	5.26E+03	2.22E+04	6.87E+09
Cresol, p-chloro-m-	-	-	-	-	5.26E+03	2.22E+04	-
Cresols	-	-	-	-	5.26E+03	2.22E+04	6.87E+09
Crotonaldehyde	-	-	-	-	-	-	-
Crotonaldehyde, trans-	2.46E+00	-	-	2.46E+00	5.26E+01	-	-
Cumene	-	-	-	-	5.26E+03	-	2.09E+04
Cupferron	2.13E+01	7.56E+01	4.89E+06	1.66E+01	-	-	-
Cyanazine	5.57E+00	1.98E+01	-	4.35E+00	1.05E+02	4.44E+02	-
Cyclohexane	-	-	-	-	-	-	5.27E+04
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	2.03E+02	7.23E+02	-	1.59E+02	-	-	-
Cyclohexanone	-	-	-	-	2.63E+05	-	2.46E+05
Cyclohexene	-	-	-	-	2.63E+02	-	1.23E+04
Cyclohexylamine	-	-	-	-	1.05E+04	-	-
Cyclopentadiene	-	-	-	-	-	-	-
Cyhalothrin	-	-	-	-	2.63E+02	1.11E+03	-
Cypermethrin	-	-	-	-	5.26E+02	2.22E+03	-
Cyromazine	-	-	-	-	3.95E+02	1.66E+03	-
Barium Cyanide	-	-	-	-	-	-	-
Calcium Cyanide	-	-	-	-	5.26E+01	-	-
Copper Cyanide	-	-	-	-	2.63E+02	-	-
Cyanide (CN-)	-	-	-	-	3.16E+01	-	2.35E+01
Cyanide (total complex)	-	-	-	-	-	-	-
Cyanogen	-	-	-	-	5.26E+01	-	-
Cyanogen Bromide	-	-	-	-	4.74E+03	-	-
Cyanogen Chloride	-	-	-	-	2.63E+03	-	-
Hydrogen Cyanide	-	-	-	-	3.16E+01	-	3.52E+02
Potassium Cyanide	-	-	-	-	1.05E+02	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Cresol, m-	2.13E+03	2.81E+04	6.65E+04	6.87E+09	1.97E+04	2.13E+03 nc
Cresol, o-	2.13E+03	2.81E+04	6.65E+04	6.87E+09	1.97E+04	2.13E+03 nc
Cresol, p-	4.25E+03	5.62E+04	1.33E+05	6.87E+09	3.95E+04	4.25E+03 nc
Cresol, p-chloro-m-	4.25E+03	5.62E+04	1.33E+05	-	3.95E+04	4.25E+03 nc
Cresols	4.25E+03	5.62E+04	1.33E+05	6.87E+09	3.95E+04	4.25E+03 nc
Crotonaldehyde	-	-	-	-	-	
Crotonaldehyde, trans-	5.26E+01	5.62E+02	-	-	5.62E+02	2.46E+00 ca*
Cumene	4.21E+03	5.62E+04	-	2.09E+04	1.52E+04	4.21E+03 sat
Cupferron	-	-	-	-	-	1.66E+01 ca
Cyanazine	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	4.35E+00 ca*
Cyclohexane	5.27E+04	-	-	5.27E+04	5.27E+04	5.27E+04 sat
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	-	-	-	-	-	1.59E+02 ca
Cyclohexanone	1.27E+05	2.81E+06	-	2.46E+05	2.26E+05	1.27E+05 sat
Cyclohexene	2.58E+02	2.81E+03	-	1.23E+04	2.29E+03	2.58E+02 nc
Cyclohexylamine	1.05E+04	1.12E+05	-	-	1.12E+05	1.05E+04 nc
Cyclopentadiene	-	-	-	-	-	
Cyhalothrin	2.13E+02	2.81E+03	6.65E+03	-	1.97E+03	2.13E+02 nc
Cypermethrin	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	4.25E+02 nc
Cyromazine	3.19E+02	4.21E+03	9.97E+03	-	2.96E+03	3.19E+02 nc
Barium Cyanide	-	-	-	-	-	
Calcium Cyanide	5.26E+01	5.62E+02	-	-	5.62E+02	5.26E+01 nc
Copper Cyanide	2.63E+02	2.81E+03	-	-	2.81E+03	2.63E+02 nc
Cyanide (CN-)	1.35E+01	3.37E+02	-	2.35E+01	2.20E+01	1.35E+01 nc
Cyanide (total complex)	-	-	-	-	-	
Cyanogen	5.26E+01	5.62E+02	-	-	5.62E+02	5.26E+01 nc
Cyanogen Bromide	4.74E+03	5.05E+04	-	-	5.05E+04	4.74E+03 nc
Cyanogen Chloride	2.63E+03	2.81E+04	-	-	2.81E+04	2.63E+03 nc
Hydrogen Cyanide	2.90E+01	3.37E+02	-	3.52E+02	1.72E+02	2.90E+01 nc
Potassium Cyanide	1.05E+02	1.12E+03	-	-	1.12E+03	1.05E+02 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Potassium Silver Cyanide	506-61-6	No	No	-		-		5.00E-03	I
Silver Cyanide	506-64-9	No	No	-		-		1.00E-01	I
Sodium Cyanide	143-33-9	No	No	-		-		1.00E-03	I
Thiocyanates	NA	No	No	-		-		2.00E-04	P
Thiocyanic Acid	463-56-9	No	Yes	-		-		2.00E-04	S
Zinc Cyanide	557-21-1	No	No	-		-		5.00E-02	I
Chlorthal-dimethyl	1861-32-1	No	No	-		-		1.00E-02	I
Dalapon	75-99-0	No	No	-		-		3.00E-02	I
DDD	72-54-8	No	No	2.40E-01	I	6.90E-05	C	-	
DDD, o,p'-	53-19-0	No	No	-		-		-	
DDT/DDE/DDD (total)	NA	No	No	-		-		-	
DDE, p,p'-	72-55-9	No	Yes	3.40E-01	I	9.70E-05	C	-	
DDT	50-29-3	No	No	3.40E-01	I	9.70E-05	I	5.00E-04	I
DDT, o,p'-	789-02-6	No	No	-		-		-	
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	1163-19-5	No	No	7.00E-04	I	-		7.00E-03	I
Decane	124-18-5	No	Yes	-		-		-	
Decanol, n-	112-30-1	No	Yes	-		-		-	
Deltamethrin	52918-63-5	No	No	-		-		-	
Demeton	8065-48-3	No	No	-		-		4.00E-05	I
Di(2-ethylhexyl)adipate	103-23-1	No	No	1.20E-03	I	-		6.00E-01	I
Diallate	2303-16-4	No	No	6.10E-02	H	-		-	
Diazinon	333-41-5	No	No	-		-		7.00E-04	A
Dibenzothiophene	132-65-0	No	Yes	-		-		1.00E-02	S
Dibromo-3-chloropropane, 1,2-	96-12-8	Yes	Yes	8.00E-01	P	6.00E-03	P	2.00E-04	P
Dibromoacetic acid	631-64-1	No	No	-		-		-	
Dibromobenzene, 1,3-	108-36-1	No	Yes	-		-		4.00E-04	S
Dibromobenzene, 1,4-	106-37-6	No	Yes	-		-		1.00E-02	I

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Potassium Silver Cyanide	-		0.04	-	1	-	-	1.36E+09
Silver Cyanide	-		0.04	-	1	-	-	1.36E+09
Sodium Cyanide	-		1	-	1	-	-	1.36E+09
Thiocyanates	-		1	-	1	-	-	1.36E+09
Thiocyanic Acid	-		1	-	1	-	-	1.36E+09
Zinc Cyanide	-		1	-	1	-	-	1.36E+09
Chlorthal-dimethyl	-		1	0.1	1	-	-	1.36E+09
Dalapon	-		1	0.1	1	-	-	1.36E+09
DDD	-		1	0.1	1	-	-	1.36E+09
DDD, o,p'-	-		1	0.1	1	-	-	1.36E+09
DDT/DDE/DDD (total)	-		1	0.1	1	-	-	1.36E+09
DDE, p,p'-	-		1	-	1	2.10E+06	-	1.36E+09
DDT	-		1	0.03	1	-	-	1.36E+09
DDT, o,p'-	-		1	0.1	1	-	-	1.36E+09
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	-		1	0.1	1	-	-	1.36E+09
Decane	-		1	-	1	1.13E+03	2.53E+00	1.36E+09
Decanol, n-	-		1	-	1	6.32E+04	3.19E+01	1.36E+09
Deltamethrin	-		1	0.1	1	-	-	1.36E+09
Demeton	-		1	0.1	1	-	-	1.36E+09
Di(2-ethylhexyl)adipate	-		1	0.1	1	-	-	1.36E+09
Diallate	-		1	0.1	1	-	-	1.36E+09
Diazinon	-		1	0.1	1	-	-	1.36E+09
Dibenzothiophene	-		1	-	1	5.24E+05	-	1.36E+09
Dibromo-3-chloropropane, 1,2-	2.00E-04	I	1	-	1	3.20E+04	9.79E+02	1.36E+09
Dibromoacetic acid	-		1	0.1	1	-	-	1.36E+09
Dibromobenzene, 1,3-	-		1	-	1	1.93E+04	1.59E+02	1.36E+09
Dibromobenzene, 1,4-	-		1	-	1	2.20E+04	-	1.36E+09

Site-specific

Recreator Screening Levels (RSL) for Soil

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Potassium Silver Cyanide	-	-	-	-	2.63E+02	-	-
Silver Cyanide	-	-	-	-	5.26E+03	-	-
Sodium Cyanide	-	-	-	-	5.26E+01	-	-
Thiocyanates	-	-	-	-	1.05E+01	-	-
Thiocyanic Acid	-	-	-	-	1.05E+01	-	-
Zinc Cyanide	-	-	-	-	2.63E+03	-	-
Chlorthal-dimethyl	-	-	-	-	5.26E+02	2.22E+03	-
Dalapon	-	-	-	-	1.58E+03	6.66E+03	-
DDD	1.95E+01	6.93E+01	4.47E+06	1.52E+01	-	-	-
DDD, o,p'-	-	-	-	-	-	-	-
DDT/DDE/DDD (total)	-	-	-	-	-	-	-
DDE, p,p'-	1.38E+01	-	4.91E+03	1.37E+01	-	-	-
DDT	1.38E+01	1.63E+02	3.18E+06	1.27E+01	2.63E+01	3.70E+02	-
DDT, o,p'-	-	-	-	-	-	-	-
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	6.68E+03	2.38E+04	-	5.22E+03	3.69E+02	1.55E+03	-
Decane	-	-	-	-	-	-	-
Decanol, n-	-	-	-	-	-	-	-
Deltamethrin	-	-	-	-	-	-	-
Demeton	-	-	-	-	2.11E+00	8.87E+00	-
Di(2-ethylhexyl)adipate	3.90E+03	1.39E+04	-	3.04E+03	3.16E+04	1.33E+05	-
Diallate	7.67E+01	2.73E+02	-	5.99E+01	-	-	-
Diazinon	-	-	-	-	3.69E+01	1.55E+02	-
Dibenzothiophene	-	-	-	-	5.26E+02	-	-
Dibromo-3-chloropropane, 1,2-	1.29E+00	-	4.37E-01	3.26E-01	1.05E+01	-	5.39E+01
Dibromoacetic acid	-	-	-	-	-	-	-
Dibromobenzene, 1,3-	-	-	-	-	2.11E+01	-	-
Dibromobenzene, 1,4-	-	-	-	-	5.26E+02	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Potassium Silver Cyanide	2.63E+02	2.81E+03	-	-	2.81E+03	2.63E+02 nc
Silver Cyanide	5.26E+03	5.62E+04	-	-	5.62E+04	5.26E+03 nc
Sodium Cyanide	5.26E+01	5.62E+02	-	-	5.62E+02	5.26E+01 nc
Thiocyanates	1.05E+01	1.12E+02	-	-	1.12E+02	1.05E+01 nc
Thiocyanic Acid	1.05E+01	1.12E+02	-	-	1.12E+02	1.05E+01 nc
Zinc Cyanide	2.63E+03	2.81E+04	-	-	2.81E+04	2.63E+03 nc
Chlorthal-dimethyl	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	4.25E+02 nc
Dalapon	1.28E+03	1.68E+04	3.99E+04	-	1.18E+04	1.28E+03 nc
DDD	-	-	-	-	-	1.52E+01 ca
DDD, o,p'-	-	-	-	-	-	
DDT/DDE/DDD (total)	-	-	-	-	-	
DDE, p,p'-	-	-	-	-	-	1.37E+01 ca
DDT	2.46E+01	2.81E+02	2.22E+03	-	2.49E+02	1.27E+01 ca**
DDT, o,p'-	-	-	-	-	-	
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	2.98E+02	3.93E+03	9.31E+03	-	2.76E+03	2.98E+02 nc
Decane	-	-	-	-	-	
Decanol, n-	-	-	-	-	-	
Deltamethrin	-	-	-	-	-	
Demeton	1.70E+00	2.25E+01	5.32E+01	-	1.58E+01	1.70E+00 nc
Di(2-ethylhexyl)adipate	2.55E+04	3.37E+05	7.98E+05	-	2.37E+05	3.04E+03 ca**
Diallate	-	-	-	-	-	5.99E+01 ca
Diazinon	2.98E+01	3.93E+02	9.31E+02	-	2.76E+02	2.98E+01 nc
Dibenzothiophene	5.26E+02	5.62E+03	-	-	5.62E+03	5.26E+02 nc
Dibromo-3-chloropropane, 1,2-	8.81E+00	1.12E+02	-	5.39E+01	3.64E+01	3.26E-01 ca*
Dibromoacetic acid	-	-	-	-	-	
Dibromobenzene, 1,3-	2.11E+01	2.25E+02	-	-	2.25E+02	2.11E+01 nc
Dibromobenzene, 1,4-	5.26E+02	5.62E+03	-	-	5.62E+03	5.26E+02 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Dibromochloromethane	124-48-1	No	Yes	8.40E-02	I	-		2.00E-02	I
Dibromodichloromethane	594-18-3	No	Yes	-		-		-	
Dibromodiphenyl Ether, p,p'-	2050-47-7	No	Yes	-		-		-	
Dibromoethane, 1,2-	106-93-4	No	Yes	2.00E+00	I	6.00E-04	I	9.00E-03	I
Dibromomethane (Methylene Bromide)	74-95-3	No	Yes	-		-		-	
Bis(Octanoyloxy)Di-N-Butyl Stannane	4731-77-5	No	Yes	-		-		-	
Bis(oleoyloxy)dibutyl tin	13323-62-1	No	Yes	-		-		-	
Di-n-butyltin bis(2-ethylhexanoate)	2781-10-4	No	Yes	-		-		-	
Di-n-butyltin bis(methyl maleate)	15546-11-9	No	No	-		-		-	
Di-n-butyltin bis(n-butyl maleate)	15546-16-4	No	No	-		-		-	
Di-n-butyltin dilaurate	77-58-7	No	Yes	-		-		-	
Di-n-butyltin distearate	5847-55-2	No	Yes	-		-		-	
Dibutoxy di-n-butyltin	3349-36-8	No	Yes	-		-		-	
Dibutylbis((1-oxoisooctyl)oxy)stannane	85702-74-5	No	No	-		-		-	
Dibutylbis(octadeca-9(Z),12(Z),15(Z)-trienoyloxy)stannane	95873-60-2	No	Yes	-		-		-	
Dibutylbis(octadeca-9(Z),12(Z)-dienoyloxy)stannane	85391-79-3	No	No	-		-		-	
Dibutylbis(palmitoyloxy)stannane	13323-63-2	No	Yes	-		-		-	
Dibutyltin Compounds	NA	No	No	-		-		3.00E-04	P
Dibutyltin diacetate	1067-33-0	No	Yes	-		-		-	
Dibutyltin oxide	818-08-6	No	Yes	-		-		-	
Dibutyltin dichloride	683-18-1	No	Yes	-		-		-	
Dicamba	1918-00-9	No	No	-		-		3.00E-02	I
Dichloro-2-butene, cis-1,4-	1476-11-5	No	Yes	-		4.20E-03	P	-	
Dichloro-2-butene, trans-1,4-	110-57-6	No	Yes	-		4.20E-03	P	-	
Dichloro-2-butene, 1,4-	764-41-0	No	Yes	-		4.20E-03	P	-	
Dichloroacetic Acid	79-43-6	No	No	5.00E-02	I	-		4.00E-03	I
Dichloroaniline, 2,4-	554-00-7	No	No	-		-		-	
Dichloroaniline, 3,4-	95-76-1	No	Yes	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Dibromochloromethane	-		1	-	1	7.95E+03	8.02E+02	1.36E+09
Dibromodichloromethane	-		1	-	1	2.32E+04	-	1.36E+09
Dibromodiphenyl Ether, p,p'-	-		1	-	1	6.05E+05	-	1.36E+09
Dibromoethane, 1,2-	9.00E-03	I	1	-	1	8.64E+03	1.34E+03	1.36E+09
Dibromomethane (Methylene Bromide)	4.00E-03	S	1	-	1	5.64E+03	2.82E+03	1.36E+09
Bis(Octanoyloxy)Di-N-Butyl Stannane	-		1	-	1	6.15E+04	-	1.36E+09
Bis(oleoyloxy)dibutyl tin	-		1	-	1	1.91E+06	-	1.36E+09
Di-n-butyltin bis(2-ethylhexanoate)	-		1	-	1	9.37E+04	-	1.36E+09
Di-n-butyltin bis(methyl maleate)	-		1	0.1	1	-	-	1.36E+09
Di-n-butyltin bis(n-butyl maleate)	-		1	0.1	1	-	-	1.36E+09
Di-n-butyltin dilaurate	-		1	-	1	3.19E+05	-	1.36E+09
Di-n-butyltin distearate	-		1	-	1	1.69E+06	-	1.36E+09
Dibutoxy di-n-butyltin	-		1	-	1	5.99E+04	-	1.36E+09
Dibutylbis((1-oxoisooctyl)oxy)stannane	-		1	0.1	1	-	-	1.36E+09
Dibutylbis(octadeca-9(Z),12(Z),15(Z)-trienoyloxy)stannane	-		1	-	1	2.46E+06	-	1.36E+09
Dibutylbis(octadeca-9(Z),12(Z)-dienoyloxy)stannane	-		1	0.1	1	-	-	1.36E+09
Dibutylbis(palmitoyloxy)stannane	-		1	-	1	8.72E+05	-	1.36E+09
Dibutyltin Compounds	-		1	0.1	1	-	-	1.36E+09
Dibutyltin diacetate	-		1	-	1	1.27E+04	1.87E+00	1.36E+09
Dibutyltin oxide	-		1	-	1	-	-	1.36E+09
Dibutyltin dichloride	-		1	-	1	3.10E+04	-	1.36E+09
Dicamba	-		1	0.1	1	-	-	1.36E+09
Dichloro-2-butene, cis-1,4-	-		1	-	1	1.11E+04	5.19E+02	1.36E+09
Dichloro-2-butene, trans-1,4-	-		1	-	1	1.11E+04	7.60E+02	1.36E+09
Dichloro-2-butene, 1,4-	-		1	-	1	3.21E+03	5.54E+02	1.36E+09
Dichloroacetic Acid	-		1	0.1	1	-	-	1.36E+09
Dichloroaniline, 2,4-	-		1	0.1	1	-	-	1.36E+09
Dichloroaniline, 3,4-	-		1	-	1	1.01E+05	-	1.36E+09

Site-specific

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Dibromochloromethane	5.57E+01	-	-	5.57E+01	1.05E+03	-	-
Dibromodichloromethane	-	-	-	-	-	-	-
Dibromodiphenyl Ether, p,p'-	-	-	-	-	-	-	-
Dibromoethane, 1,2-	2.34E+00	-	3.27E+00	1.36E+00	4.74E+02	-	6.55E+02
Dibromomethane (Methylene Bromide)	-	-	-	-	-	-	1.90E+02
Bis(Octanoyloxy)Di-N-Butyl Stannane	-	-	-	-	-	-	-
Bis(oleoyloxy)dibutyl tin	-	-	-	-	-	-	-
Di-n-butyltin bis(2-ethylhexanoate)	-	-	-	-	-	-	-
Di-n-butyltin bis(methyl maleate)	-	-	-	-	-	-	-
Di-n-butyltin bis(n-butyl maleate)	-	-	-	-	-	-	-
Di-n-butyltin dilaurate	-	-	-	-	-	-	-
Di-n-butyltin distearate	-	-	-	-	-	-	-
Dibutoxy di-n-butyltin	-	-	-	-	-	-	-
Dibutylbis((1-oxoisooctyl)oxy)stannane	-	-	-	-	-	-	-
Dibutylbis(octadeca-9(Z),12(Z),15(Z)-trienoyloxy)stannane	-	-	-	-	-	-	-
Dibutylbis(octadeca-9(Z),12(Z)-dienoyloxy)stannane	-	-	-	-	-	-	-
Dibutylbis(palmitoyloxy)stannane	-	-	-	-	-	-	-
Dibutyltin Compounds	-	-	-	-	1.58E+01	6.66E+01	-
Dibutyltin diacetate	-	-	-	-	-	-	-
Dibutyltin oxide	-	-	-	-	-	-	-
Dibutyltin dichloride	-	-	-	-	-	-	-
Dicamba	-	-	-	-	1.58E+03	6.66E+03	-
Dichloro-2-butene, cis-1,4-	-	-	6.00E-01	6.00E-01	-	-	-
Dichloro-2-butene, trans-1,4-	-	-	6.01E-01	6.01E-01	-	-	-
Dichloro-2-butene, 1,4-	-	-	1.73E-01	1.73E-01	-	-	-
Dichloroacetic Acid	9.36E+01	3.33E+02	-	7.30E+01	2.11E+02	8.87E+02	-
Dichloroaniline, 2,4-	-	-	-	-	-	-	-
Dichloroaniline, 3,4-	-	-	-	-	-	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Dibromochloromethane	1.05E+03	1.12E+04	-	-	1.12E+04	5.57E+01 ca*
Dibromodichloromethane	-	-	-	-	-	
Dibromodiphenyl Ether, p,p'-	-	-	-	-	-	
Dibromoethane, 1,2-	2.75E+02	5.05E+03	-	6.55E+02	5.80E+02	1.36E+00 ca
Dibromomethane (Methylene Bromide)	1.90E+02	-	-	1.90E+02	1.90E+02	1.90E+02 nc
Bis(Octanoyloxy)Di-N-Butyl Stannane	-	-	-	-	-	
Bis(oleoyloxy)dibutyl tin	-	-	-	-	-	
Di-n-butyltin bis(2-ethylhexanoate)	-	-	-	-	-	
Di-n-butyltin bis(methyl maleate)	-	-	-	-	-	
Di-n-butyltin bis(n-butyl maleate)	-	-	-	-	-	
Di-n-butyltin dilaurate	-	-	-	-	-	
Di-n-butyltin distearate	-	-	-	-	-	
Dibutoxy di-n-butyltin	-	-	-	-	-	
Dibutylbis((1-oxoisooctyl)oxy)stannane	-	-	-	-	-	
Dibutylbis(octadeca-9(Z),12(Z),15(Z)-trienoyloxy)stannane	-	-	-	-	-	
Dibutylbis(octadeca-9(Z),12(Z)-dienoyloxy)stannane	-	-	-	-	-	
Dibutylbis(palmitoyloxy)stannane	-	-	-	-	-	
Dibutyltin Compounds	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	1.28E+01 nc
Dibutyltin diacetate	-	-	-	-	-	
Dibutyltin oxide	-	-	-	-	-	
Dibutyltin dichloride	-	-	-	-	-	
Dicamba	1.28E+03	1.68E+04	3.99E+04	-	1.18E+04	1.28E+03 nc
Dichloro-2-butene, cis-1,4-	-	-	-	-	-	6.00E-01 ca
Dichloro-2-butene, trans-1,4-	-	-	-	-	-	6.01E-01 ca
Dichloro-2-butene, 1,4-	-	-	-	-	-	1.73E-01 ca
Dichloroacetic Acid	1.70E+02	2.25E+03	5.32E+03	-	1.58E+03	7.30E+01 ca**
Dichloroaniline, 2,4-	-	-	-	-	-	
Dichloroaniline, 3,4-	-	-	-	-	-	

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Dichlorobenzene	25321-22-6	No	Yes	-		-		-	
Dichlorobenzene, 1,2-	95-50-1	No	Yes	-		-		9.00E-02	I
Dichlorobenzene, 1,3-	541-73-1	No	Yes	-		-		-	
Dichlorobenzene, 1,4-	106-46-7	No	Yes	5.40E-03	C	1.10E-05	C	7.00E-02	A
Dichlorobenzidine, 3,3'-	91-94-1	No	No	4.50E-01	I	3.40E-04	C	-	
Dichlorobenzoic acid, -3,5	51-36-5	No	No	-		-		-	
Dichlorobenzophenone, 4,4'-	90-98-2	No	No	-		-		9.00E-03	S
Dichlorobenzotrifluoride, 3,4-	328-84-7	No	Yes	-		-		-	
Dichlorodifluoromethane	75-71-8	No	Yes	-		-		2.00E-01	I
Dichlorodiisopropyl ether, 2,2'-	39638-32-9	No	Yes	-		-		-	
Dichloroethane, 1,1-	75-34-3	No	Yes	5.70E-03	C	1.60E-06	C	2.00E-01	P
Dichloroethane, 1,2-	107-06-2	No	Yes	9.10E-02	I	2.60E-05	I	6.00E-03	S
Dichloroethylene, 1,1-	75-35-4	No	Yes	-		-		5.00E-02	I
Dichloroethylene, 1,2-cis-	156-59-2	No	Yes	-		-		2.00E-03	I
Dichloroethylene, 1,2-trans-	156-60-5	No	Yes	-		-		2.00E-02	I
Dichlorophenol, 2,6-	87-65-0	No	No	-		-		-	
Dichlorophenol, 3,4-	95-77-2	No	No	-		-		-	
Dichlorophenol, 2,3-	576-24-9	No	No	-		-		-	
Dichlorophenol, 2,4-	120-83-2	No	No	-		-		3.00E-03	I
Dichlorophenol, 2,5-	583-78-8	No	No	-		-		-	
Dichlorophenols (total)	NA	No	No	-		-		-	
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	No	No	-		-		1.00E-02	I
Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6	No	No	-		-		8.00E-03	I
Dichloropropane, 1,2-	78-87-5	No	Yes	3.60E-02	C	1.00E-05	C	9.00E-02	A
Dichloropropane, 1,3-	142-28-9	No	Yes	-		-		2.00E-02	P
Dichloropropane, 2,2-	594-20-7	No	Yes	-		-		-	
Dichloropropanol, 2,3-	616-23-9	No	No	-		-		3.00E-03	I

Site-specific

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Dichlorobenzene	-		1	-	1	2.02E+04	1.93E+02	1.36E+09
Dichlorobenzene, 1,2-	2.00E-01	H	1	-	1	1.17E+04	3.76E+02	1.36E+09
Dichlorobenzene, 1,3-	-		1	-	1	9.93E+03	2.97E+02	1.36E+09
Dichlorobenzene, 1,4-	8.00E-01	I	1	-	1	1.04E+04	-	1.36E+09
Dichlorobenzidine, 3,3'-	-		1	0.1	1	-	-	1.36E+09
Dichlorobenzoic acid, -3,5	-		1	0.1	1	-	-	1.36E+09
Dichlorobenzophenone, 4,4'-	-		1	0.1	1	-	-	1.36E+09
Dichlorobenzotrifluoride, 3,4-	-		1	-	1	1.15E+04	3.02E+02	1.36E+09
Dichlorodifluoromethane	1.00E-01	S	1	-	1	8.41E+02	8.45E+02	1.36E+09
Dichlorodiisopropyl ether, 2,2'-	-		1	-	1	1.32E+04	2.35E+02	1.36E+09
Dichloroethane, 1,1-	-		1	-	1	2.08E+03	1.69E+03	1.36E+09
Dichloroethane, 1,2-	7.00E-03	P	1	-	1	4.57E+03	2.98E+03	1.36E+09
Dichloroethylene, 1,1-	2.00E-01	I	1	-	1	1.16E+03	1.19E+03	1.36E+09
Dichloroethylene, 1,2-cis-	-		1	-	1	2.50E+03	2.37E+03	1.36E+09
Dichloroethylene, 1,2-trans-	-		1	-	1	1.75E+03	1.85E+03	1.36E+09
Dichlorophenol, 2,6-	-		1	0.1	1	-	-	1.36E+09
Dichlorophenol, 3,4-	-		1	0.1	1	-	-	1.36E+09
Dichlorophenol, 2,3-	-		1	0.1	1	-	-	1.36E+09
Dichlorophenol, 2,4-	-		1	0.1	1	-	-	1.36E+09
Dichlorophenol, 2,5-	-		1	0.1	1	-	-	1.36E+09
Dichlorophenols (total)	-		1	0.1	1	-	-	1.36E+09
Dichlorophenoxy Acetic Acid, 2,4-	-		1	0.05	1	-	-	1.36E+09
Dichlorophenoxy)butyric Acid, 4-(2,4-	-		1	0.1	1	-	-	1.36E+09
Dichloropropane, 1,2-	4.00E-03	I	1	-	1	3.79E+03	1.36E+03	1.36E+09
Dichloropropane, 1,3-	-		1	-	1	6.76E+03	1.49E+03	1.36E+09
Dichloropropane, 2,2-	-		1	-	1	1.60E+03	1.91E+02	1.36E+09
Dichloropropanol, 2,3-	-		1	0.1	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Dichlorobenzene	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	-	-	-	-	4.74E+03	-	1.97E+04
Dichlorobenzene, 1,3-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	8.67E+02	-	2.15E+02	1.72E+02	3.69E+03	-	7.04E+04
Dichlorobenzidine, 3,3'-	1.04E+01	3.70E+01	9.07E+05	8.12E+00	-	-	-
Dichlorobenzoic acid, -3,5	-	-	-	-	-	-	-
Dichlorobenzophenone, 4,4'-	-	-	-	-	4.74E+02	2.00E+03	-
Dichlorobenzotrifluoride, 3,4-	-	-	-	-	-	-	-
Dichlorodifluoromethane	-	-	-	-	1.05E+04	-	7.08E+02
Dichlorodiisopropyl ether, 2,2'-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	8.21E+02	-	2.95E+02	2.17E+02	1.05E+04	-	-
Dichloroethane, 1,2-	5.14E+01	-	3.99E+01	2.25E+01	3.16E+02	-	2.70E+02
Dichloroethylene, 1,1-	-	-	-	-	2.63E+03	-	1.95E+03
Dichloroethylene, 1,2-cis-	-	-	-	-	1.05E+02	-	-
Dichloroethylene, 1,2-trans-	-	-	-	-	1.05E+03	-	-
Dichlorophenol, 2,6-	-	-	-	-	-	-	-
Dichlorophenol, 3,4-	-	-	-	-	-	-	-
Dichlorophenol, 2,3-	-	-	-	-	-	-	-
Dichlorophenol, 2,4-	-	-	-	-	1.58E+02	6.66E+02	-
Dichlorophenol, 2,5-	-	-	-	-	-	-	-
Dichlorophenols (total)	-	-	-	-	-	-	-
Dichlorophenoxy Acetic Acid, 2,4-	-	-	-	-	5.26E+02	4.44E+03	-
Dichlorophenoxy)butyric Acid, 4-(2,4-	-	-	-	-	4.21E+02	1.77E+03	-
Dichloropropane, 1,2-	1.30E+02	-	8.59E+01	5.17E+01	4.74E+03	-	1.28E+02
Dichloropropane, 1,3-	-	-	-	-	1.05E+03	-	-
Dichloropropane, 2,2-	-	-	-	-	-	-	-
Dichloropropanol, 2,3-	-	-	-	-	1.58E+02	6.66E+02	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Dichlorobenzene	-	-	-	-	-	
Dichlorobenzene, 1,2-	3.82E+03	5.05E+04	-	1.97E+04	1.42E+04	3.82E+03 sat
Dichlorobenzene, 1,3-	-	-	-	-	-	
Dichlorobenzene, 1,4-	3.50E+03	3.93E+04	-	7.04E+04	2.52E+04	1.72E+02 ca*
Dichlorobenzidine, 3,3'-	-	-	-	-	-	8.12E+00 ca
Dichlorobenzoic acid, -3,5	-	-	-	-	-	
Dichlorobenzophenone, 4,4'-	3.83E+02	5.05E+03	1.20E+04	-	3.55E+03	3.83E+02 nc
Dichlorobenzotrifluoride, 3,4-	-	-	-	-	-	
Dichlorodifluoromethane	6.63E+02	1.12E+05	-	7.08E+02	7.04E+02	6.63E+02 nc
Dichlorodiisopropyl ether, 2,2'-	-	-	-	-	-	
Dichloroethane, 1,1-	1.05E+04	1.12E+05	-	-	1.12E+05	2.17E+02 ca*
Dichloroethane, 1,2-	1.45E+02	3.37E+03	-	2.70E+02	2.50E+02	2.25E+01 ca**
Dichloroethylene, 1,1-	1.12E+03	2.81E+04	-	1.95E+03	1.82E+03	1.12E+03 nc
Dichloroethylene, 1,2-cis-	1.05E+02	1.12E+03	-	-	1.12E+03	1.05E+02 nc
Dichloroethylene, 1,2-trans-	1.05E+03	1.12E+04	-	-	1.12E+04	1.05E+03 nc
Dichlorophenol, 2,6-	-	-	-	-	-	
Dichlorophenol, 3,4-	-	-	-	-	-	
Dichlorophenol, 2,3-	-	-	-	-	-	
Dichlorophenol, 2,4-	1.28E+02	1.68E+03	3.99E+03	-	1.18E+03	1.28E+02 nc
Dichlorophenol, 2,5-	-	-	-	-	-	
Dichlorophenols (total)	-	-	-	-	-	
Dichlorophenoxy Acetic Acid, 2,4-	4.71E+02	5.62E+03	2.66E+04	-	4.64E+03	4.71E+02 nc
Dichlorophenoxy)butyric Acid, 4-(2,4-	3.40E+02	4.49E+03	1.06E+04	-	3.16E+03	3.40E+02 nc
Dichloropropane, 1,2-	1.24E+02	5.05E+04	-	1.28E+02	1.27E+02	5.17E+01 ca**
Dichloropropane, 1,3-	1.05E+03	1.12E+04	-	-	1.12E+04	1.05E+03 nc
Dichloropropane, 2,2-	-	-	-	-	-	
Dichloropropanol, 2,3-	1.28E+02	1.68E+03	3.99E+03	-	1.18E+03	1.28E+02 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Dichloropropene, 1,3-	542-75-6	No	Yes	1.00E-01	I	4.00E-06	I	3.00E-02	I
Dichloropropene, 2,3-	78-88-6	No	Yes	-		-		-	
Dichloropropene, cis-1,3-	10061-01-5	No	Yes	-		-		-	
Dichloropropene, trans-1,3-	10061-02-6	No	Yes	-		-		-	
Dichloropropene, 1,1-	563-58-6	No	Yes	-		-		-	
Dichlorvos	62-73-7	No	No	2.90E-01	I	8.30E-05	C	5.00E-04	I
Diclofop-methyl	51338-27-3	No	No	-		-		-	
Dicofol	115-32-2	No	No	-		-		-	
Dicyclohexylamine	101-83-7	No	Yes	-		-		-	
Dicyclopentadiene	77-73-6	No	Yes	-		-		8.00E-02	P
Didecyl dimethyl ammonium chloride	7173-51-5	No	No	-		-		-	
Dieldrin	60-57-1	No	No	1.60E+01	I	4.60E-03	I	5.00E-05	I
Diepoxybutane	1464-53-5	No	Yes	-		-		-	
Diethanolamine	111-42-2	No	No	-		-		2.00E-03	P
Diethyl sulfate	64-67-5	No	No	-		-		-	
Diethyl-p-nitrophenylphosphate	311-45-5	No	No	-		-		-	
Diethylene-glycol	111-46-6	No	No	-		-		-	
Diethylene Glycol Dinitrate (DEGDN)	693-21-0	No	No	-		-		-	
Diethylene Glycol Monobutyl Ether	112-34-5	No	No	-		-		3.00E-02	P
Diethylene Glycol Monoethyl Ether	111-90-0	No	No	-		-		6.00E-02	P
Diethylformamide	617-84-5	No	Yes	-		-		1.00E-03	P
Diethylphosphorodithioate	298-06-6	No	Yes	-		-		-	
Diethylstilbestrol	56-53-1	No	No	3.50E+02	C	1.00E-01	C	-	
Difenzoquat	43222-48-6	No	No	-		-		8.00E-02	I
Diflubenzuron	35367-38-5	No	No	-		-		2.00E-02	I
Difluoroethane, 1,1-	75-37-6	No	Yes	-		-		-	
Difluoropropane, 2,2-	420-45-1	No	Yes	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Dichloropropene, 1,3-	2.00E-02	I	1	-	1	3.55E+03	1.57E+03	1.36E+09
Dichloropropene, 2,3-	-		1	-	1	3.09E+03	1.07E+03	1.36E+09
Dichloropropene, cis-1,3-	-		1	-	1	4.04E+03	1.21E+03	1.36E+09
Dichloropropene, trans-1,3-	-		1	-	1	7.04E+03	1.51E+03	1.36E+09
Dichloropropene, 1,1-	-		1	-	-	1.18E+03	-	1.36E+09
Dichlorvos	5.00E-04	I	1	0.1	1	-	-	1.36E+09
Diclofop-methyl	-		1	0.1	1	-	-	1.36E+09
Dicofol	-		1	0.1	1	-	-	1.36E+09
Dicyclohexylamine	-		1	-	1	6.26E+04	1.22E+02	1.36E+09
Dicyclopentadiene	3.00E-04	S	1	-	1	4.11E+03	2.56E+02	1.36E+09
Didecyl dimethyl ammonium chloride	-		1	0.1	1	-	-	1.36E+09
Dieldrin	-		1	0.1	1	-	-	1.36E+09
Diepoxybutane	-		1	-	1	1.46E+05	1.15E+05	1.36E+09
Diethanolamine	2.00E-04	P	1	0.1	1	-	-	1.36E+09
Diethyl sulfate	-		1	0.1	1	-	-	1.36E+09
Diethyl-p-nitrophenylphosphate	-		1	0.1	1	-	-	1.36E+09
Diethylene-glycol	-		1	0.1	1	-	-	1.36E+09
Diethylene Glycol Dinitrate (DEGDN)	-		1	0.1	1	-	-	1.36E+09
Diethylene Glycol Monobutyl Ether	1.00E-04	P	1	0.1	1	-	-	1.36E+09
Diethylene Glycol Monoethyl Ether	3.00E-04	P	1	0.1	1	-	-	1.36E+09
Diethylformamide	-		1	-	1	1.39E+05	1.12E+05	1.36E+09
Diethylphosphorodithioate	-		1	-	1	1.30E+04	2.15E-02	1.36E+09
Diethylstilbestrol	-		1	0.1	1	-	-	1.36E+09
Difenzoquat	-		1	0.1	1	-	-	1.36E+09
Diflubenzuron	-		1	0.1	1	-	-	1.36E+09
Difluoroethane, 1,1-	4.00E+01	I	1	-	1	1.15E+03	1.43E+03	1.36E+09
Difluoropropane, 2,2-	-		1	-	1	7.58E+02	6.91E+02	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Dichloropropene, 1,3-	4.68E+01	-	2.02E+02	3.80E+01	1.58E+03	-	5.99E+02
Dichloropropene, 2,3-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	-	-	-	-	-	-	-
Dichloropropene, 1,1-	-	-	-	-	-	-	-
Dichlorvos	1.61E+01	5.74E+01	3.71E+06	1.26E+01	2.63E+01	1.11E+02	5.72E+06
Diclofop-methyl	-	-	-	-	-	-	-
Dicofol	-	-	-	-	-	-	-
Dicyclohexylamine	-	-	-	-	-	-	-
Dicyclopentadiene	-	-	-	-	4.21E+03	-	1.04E+01
Didecyl dimethyl ammonium chloride	-	-	-	-	-	-	-
Dieldrin	2.92E-01	1.04E+00	6.70E+04	2.28E-01	2.63E+00	1.11E+01	-
Diepoxybutane	-	-	-	-	-	-	-
Diethanolamine	-	-	-	-	1.05E+02	4.44E+02	2.29E+06
Diethyl sulfate	-	-	-	-	-	-	-
Diethyl-p-nitrophenylphosphate	-	-	-	-	-	-	-
Diethylene-glycol	-	-	-	-	-	-	-
Diethylene Glycol Dinitrate (DEGDN)	-	-	-	-	-	-	-
Diethylene Glycol Monobutyl Ether	-	-	-	-	1.58E+03	6.66E+03	1.14E+06
Diethylene Glycol Monoethyl Ether	-	-	-	-	3.16E+03	1.33E+04	3.43E+06
Diethylformamide	-	-	-	-	5.26E+01	-	-
Diethylphosphorodithioate	-	-	-	-	-	-	-
Diethylstilbestrol	1.34E-02	4.75E-02	3.08E+03	1.04E-02	-	-	-
Difenzoquat	-	-	-	-	4.21E+03	1.77E+04	-
Diflubenzuron	-	-	-	-	1.05E+03	4.44E+03	-
Difluoroethane, 1,1-	-	-	-	-	-	-	3.87E+05
Difluoropropane, 2,2-	-	-	-	-	-	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Dichloropropene, 1,3-	4.34E+02	1.68E+04	-	5.99E+02	5.78E+02	3.80E+01 ca*
Dichloropropene, 2,3-	-	-	-	-	-	
Dichloropropene, cis-1,3-	-	-	-	-	-	
Dichloropropene, trans-1,3-	-	-	-	-	-	
Dichloropropene, 1,1-	-	-	-	-	-	
Dichlorvos	2.13E+01	2.81E+02	6.65E+02	5.72E+06	1.97E+02	1.26E+01 ca**
Diclofop-methyl	-	-	-	-	-	
Dicofol	-	-	-	-	-	
Dicyclohexylamine	-	-	-	-	-	
Dicyclopentadiene	1.04E+01	4.49E+04	-	1.04E+01	1.04E+01	1.04E+01 nc
Didecyl dimethyl ammonium chloride	-	-	-	-	-	
Dieldrin	2.13E+00	2.81E+01	6.65E+01	-	1.97E+01	2.28E-01 ca**
Diepoxybutane	-	-	-	-	-	
Diethanolamine	8.51E+01	1.12E+03	2.66E+03	2.29E+06	7.89E+02	8.51E+01 nc
Diethyl sulfate	-	-	-	-	-	
Diethyl-p-nitrophenylphosphate	-	-	-	-	-	
Diethylene-glycol	-	-	-	-	-	
Diethylene Glycol Dinitrate (DEGDN)	-	-	-	-	-	
Diethylene Glycol Monobutyl Ether	1.28E+03	1.68E+04	3.99E+04	1.14E+06	1.17E+04	1.28E+03 nc
Diethylene Glycol Monoethyl Ether	2.55E+03	3.37E+04	7.98E+04	3.43E+06	2.35E+04	2.55E+03 nc
Diethylformamide	5.26E+01	5.62E+02	-	-	5.62E+02	5.26E+01 nc
Diethylphosphorodithioate	-	-	-	-	-	
Diethylstilbestrol	-	-	-	-	-	1.04E-02 ca
Difenzoquat	3.40E+03	4.49E+04	1.06E+05	-	3.16E+04	3.40E+03 nc
Diflubenzuron	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Difluoroethane, 1,1-	3.87E+05	-	-	3.87E+05	3.87E+05	3.87E+05 sat
Difluoropropane, 2,2-	-	-	-	-	-	

Site-specific

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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Dihydrosafrole	94-58-6	No	Yes	4.40E-02	C	1.30E-05	C	-	
Diisopropyl Ether	108-20-3	No	Yes	-		-		-	
Diisopropyl Methylphosphonate	1445-75-6	No	Yes	-		-		8.00E-02	I
Dimethipin	55290-64-7	No	No	-		-		2.00E-02	I
Dimethoate	60-51-5	No	No	-		-		2.00E-04	I
Dimethoxybenzidine, 3,3'-	119-90-4	No	No	1.60E+00	P	-		-	
Dimethyl methylphosphonate	756-79-6	No	No	1.70E-03	P	-		6.00E-02	P
Dimethyl Sulfate	77-78-1	No	No	-		-		-	
Dimethyl Sulfide	75-18-3	No	Yes	-		-		-	
Dimethylamino azobenzene [p-]	60-11-7	No	No	4.60E+00	C	1.30E-03	C	-	
Dimethylaniline HCl, 2,4-	21436-96-4	No	No	5.80E-01	H	-		-	
Dimethylaniline, 2,4-	95-68-1	No	No	2.00E-01	P	-		2.00E-03	S
Dimethylaniline, N,N-	121-69-7	No	Yes	-		-		2.00E-03	I
Dimethylbenzidine, 3,3'-	119-93-7	No	No	1.10E+01	P	-		-	
Dimethylcyclohexylamine, n,n-	98-94-2	No	Yes	-		-		-	
Dimethylformamide	68-12-2	No	Yes	-		-		1.00E-01	P
Dimethylhydrazine, 1,1-	57-14-7	No	Yes	-		-		1.00E-04	S
Dimethylhydrazine, 1,2-	540-73-8	No	Yes	5.50E+02	C	1.60E-01	C	-	
Dimethylphenethylamine	122-09-8	No	No	-		-		-	
Dimethylphenol, 2,4-	105-67-9	No	No	-		-		2.00E-02	I
Dimethylphenol, 2,6-	576-26-1	No	No	-		-		6.00E-04	I
Dimethylphenol, 3,4-	95-65-8	No	No	-		-		1.00E-03	I
Dimethylvinylchloride	513-37-1	No	Yes	4.50E-02	C	1.30E-05	C	-	
Dinitro-o-cresol, 4,6-	534-52-1	No	No	-		-		8.00E-05	S
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	No	No	-		-		2.00E-03	I
Dinitroaniline, 3,5-	618-87-1	No	No	-		-		-	
Dinitrobenzene, 1,2-	528-29-0	No	No	-		-		1.00E-04	P

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Dihydrosafrole	-		1	-	1	1.23E+05	-	1.36E+09
Diisopropyl Ether	7.00E-01	P	1	-	1	3.06E+03	2.26E+03	1.36E+09
Diisopropyl Methylphosphonate	-		1	-	1	3.81E+04	5.30E+02	1.36E+09
Dimethipin	-		1	0.1	1	-	-	1.36E+09
Dimethoate	-		1	0.1	1	-	-	1.36E+09
Dimethoxybenzidine, 3,3'-	-		1	0.1	1	-	-	1.36E+09
Dimethyl methylphosphonate	-		1	0.1	1	-	-	1.36E+09
Dimethyl Sulfate	-		1	0.1	1	-	-	1.36E+09
Dimethyl Sulfide	-		1	-	1	2.97E+03	5.35E+03	1.36E+09
Dimethylamino azobenzene [p-]	-		1	0.1	1	-	-	1.36E+09
Dimethylaniline HCl, 2,4-	-		1	0.1	1	-	-	1.36E+09
Dimethylaniline, 2,4-	-		1	0.1	1	-	-	1.36E+09
Dimethylaniline, N,N-	-		1	-	1	3.13E+04	8.30E+02	1.36E+09
Dimethylbenzidine, 3,3'-	-		1	0.1	1	-	-	1.36E+09
Dimethylcyclohexylamine, n,n-	-		1	-	1	3.80E+04	-	1.36E+09
Dimethylformamide	3.00E-02	I	1	-	1	1.28E+05	1.06E+05	1.36E+09
Dimethylhydrazine, 1,1-	2.00E-06	S	1	-	1	2.77E+04	1.72E+05	1.36E+09
Dimethylhydrazine, 1,2-	-		1	-	1	1.68E+05	1.89E+05	1.36E+09
Dimethylphenethylamine	-		1	0.1	1	-	-	1.36E+09
Dimethylphenol, 2,4-	-		1	0.1	1	-	-	1.36E+09
Dimethylphenol, 2,6-	-		1	0.1	1	-	-	1.36E+09
Dimethylphenol, 3,4-	-		1	0.1	1	-	-	1.36E+09
Dimethylvinylchloride	-		1	-	1	9.50E+02	1.31E+03	1.36E+09
Dinitro-o-cresol, 4,6-	-		1	0.1	1	-	-	1.36E+09
Dinitro-o-cyclohexyl Phenol, 4,6-	-		1	0.1	1	-	-	1.36E+09
Dinitroaniline, 3,5-	-		1	0.1	1	-	-	1.36E+09
Dinitrobenzene, 1,2-	-		1	0.1	1	-	-	1.36E+09

Site-specific

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Dihydrosafrole	1.06E+02	-	2.15E+03	1.01E+02	-	-	-
Diisopropyl Ether	-	-	-	-	-	-	1.80E+04
Diisopropyl Methylphosphonate	-	-	-	-	4.21E+03	-	-
Dimethipin	-	-	-	-	1.05E+03	4.44E+03	-
Dimethoate	-	-	-	-	1.05E+01	4.44E+01	-
Dimethoxybenzidine, 3,3'-	2.92E+00	1.04E+01	-	2.28E+00	-	-	-
Dimethyl methylphosphonate	2.75E+03	9.78E+03	-	2.15E+03	3.16E+03	1.33E+04	-
Dimethyl Sulfate	-	-	-	-	-	-	-
Dimethyl Sulfide	-	-	-	-	-	-	-
Dimethylamino azobenzene [p-]	1.02E+00	3.62E+00	2.37E+05	7.94E-01	-	-	-
Dimethylaniline HCl, 2,4-	8.07E+00	2.87E+01	-	6.30E+00	-	-	-
Dimethylaniline, 2,4-	2.34E+01	8.32E+01	-	1.83E+01	1.05E+02	4.44E+02	-
Dimethylaniline, N,N-	-	-	-	-	1.05E+02	-	-
Dimethylbenzidine, 3,3'-	4.25E-01	1.51E+00	-	3.32E-01	-	-	-
Dimethylcyclohexylamine, n,n-	-	-	-	-	-	-	-
Dimethylformamide	-	-	-	-	5.26E+03	-	3.22E+04
Dimethylhydrazine, 1,1-	-	-	-	-	5.26E+00	-	4.66E-01
Dimethylhydrazine, 1,2-	8.51E-03	-	2.37E-01	8.21E-03	-	-	-
Dimethylphenethylamine	-	-	-	-	-	-	-
Dimethylphenol, 2,4-	-	-	-	-	1.05E+03	4.44E+03	-
Dimethylphenol, 2,6-	-	-	-	-	3.16E+01	1.33E+02	-
Dimethylphenol, 3,4-	-	-	-	-	5.26E+01	2.22E+02	-
Dimethylvinylchloride	1.04E+02	-	1.66E+01	1.43E+01	-	-	-
Dinitro-o-cresol, 4,6-	-	-	-	-	4.21E+00	1.77E+01	-
Dinitro-o-cyclohexyl Phenol, 4,6-	-	-	-	-	1.05E+02	4.44E+02	-
Dinitroaniline, 3,5-	-	-	-	-	-	-	-
Dinitrobenzene, 1,2-	-	-	-	-	5.26E+00	2.22E+01	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Dihydrosafrole	-	-	-	-	-	1.01E+02 ca
Diisopropyl Ether	1.80E+04	-	-	1.80E+04	1.80E+04	1.80E+04 sat
Diisopropyl Methylphosphonate	4.21E+03	4.49E+04	-	-	4.49E+04	4.21E+03 sat
Dimethipin	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Dimethoate	8.51E+00	1.12E+02	2.66E+02	-	7.90E+01	8.51E+00 nc
Dimethoxybenzidine, 3,3'-	-	-	-	-	-	2.28E+00 ca
Dimethyl methylphosphonate	2.55E+03	3.37E+04	7.98E+04	-	2.37E+04	2.15E+03 ca**
Dimethyl Sulfate	-	-	-	-	-	
Dimethyl Sulfide	-	-	-	-	-	
Dimethylamino azobenzene [p-]	-	-	-	-	-	7.94E-01 ca
Dimethylaniline HCl, 2,4-	-	-	-	-	-	6.30E+00 ca
Dimethylaniline, 2,4-	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	1.83E+01 ca**
Dimethylaniline, N,N-	1.05E+02	1.12E+03	-	-	1.12E+03	1.05E+02 nc
Dimethylbenzidine, 3,3'-	-	-	-	-	-	3.32E-01 ca
Dimethylcyclohexylamine, n,n-	-	-	-	-	-	
Dimethylformamide	4.53E+03	5.62E+04	-	3.22E+04	2.05E+04	4.53E+03 nc
Dimethylhydrazine, 1,1-	4.28E-01	5.62E+01	-	4.66E-01	4.62E-01	4.28E-01 nc
Dimethylhydrazine, 1,2-	-	-	-	-	-	8.21E-03 ca
Dimethylphenethylamine	-	-	-	-	-	
Dimethylphenol, 2,4-	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Dimethylphenol, 2,6-	2.55E+01	3.37E+02	7.98E+02	-	2.37E+02	2.55E+01 nc
Dimethylphenol, 3,4-	4.25E+01	5.62E+02	1.33E+03	-	3.95E+02	4.25E+01 nc
Dimethylvinylchloride	-	-	-	-	-	1.43E+01 ca
Dinitro-o-cresol, 4,6-	3.40E+00	4.49E+01	1.06E+02	-	3.16E+01	3.40E+00 nc
Dinitro-o-cyclohexyl Phenol, 4,6-	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	8.51E+01 nc
Dinitroaniline, 3,5-	-	-	-	-	-	
Dinitrobenzene, 1,2-	4.25E+00	5.62E+01	1.33E+02	-	3.95E+01	4.25E+00 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Dinitrobenzene, 1,3-	99-65-0	No	No	-		-		1.00E-04	I
Dinitrobenzene, 1,4-	100-25-4	No	No	-		-		1.00E-04	P
Dinitrophenol, 2,4-	51-28-5	No	No	-		-		2.00E-03	I
Dinitrophenols	25550-58-7	No	No	-		-		-	
Dinitrosopentamethylenetetramine, N,N-	101-25-7	No	No	-		-		-	
Dinitrotoluene Mixture, 2,4/2,6-	NA	No	No	6.80E-01	I	-		-	
Dinitrotoluene, 2,4-	121-14-2	No	No	3.10E-01	C	8.90E-05	C	2.00E-03	I
Dinitrotoluene, 2,6-	606-20-2	No	No	1.50E+00	P	-		3.00E-04	S
Dinitrotoluene, 2-Amino-4,6-	35572-78-2	No	No	-		-		2.00E-03	S
Dinitrotoluene, 4-Amino-2,6-	19406-51-0	No	No	-		-		2.00E-03	S
Dinitrotoluene, Technical grade	25321-14-6	No	No	4.50E-01	X	-		9.00E-04	S
Dinoseb	88-85-7	No	No	-		-		1.00E-03	I
Dioxane, 1,4-	123-91-1	No	Yes	1.00E-01	I	5.00E-06	I	3.00E-02	I
Diphenamid	957-51-7	No	No	-		-		3.00E-02	I
Diphenyl Sulfone	127-63-9	No	No	-		-		8.00E-04	S
Diphenylamine	122-39-4	No	No	-		-		2.50E-02	I
Diphenylhydrazine, 1,2-	122-66-7	No	No	8.00E-01	I	2.20E-04	I	-	
Diquat	85-00-7	No	No	-		-		2.20E-03	I
Direct Black 38	1937-37-7	No	No	7.10E+00	C	1.40E-01	C	-	
Direct Blue 6	2602-46-2	No	No	7.40E+00	C	1.40E-01	C	-	
Direct Brown 95	16071-86-6	No	No	6.70E+00	C	1.40E-01	C	-	
Direct Sky Blue	2610-05-1	No	No	-		-		-	
Disulfoton	298-04-4	No	No	-		-		4.00E-05	I
Dithiane, 1,4-	505-29-3	No	Yes	-		-		1.00E-02	I
Diundecyl Phthalate	3648-20-2	No	Yes	-		-		-	
Diuron	330-54-1	No	No	-		-		2.00E-03	I

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Dinitrobenzene, 1,3-	-		1	0.1	1	-	-	1.36E+09
Dinitrobenzene, 1,4-	-		1	0.1	1	-	-	1.36E+09
Dinitrophenol, 2,4-	-		1	0.1	1	-	-	1.36E+09
Dinitrophenols	-		1	0.1	1	-	-	1.36E+09
Dinitrosopentamethylenetetramine, N,N-	-		1	0.1	1	-	-	1.36E+09
Dinitrotoluene Mixture, 2,4/2,6-	-		1	0.1	1	-	-	1.36E+09
Dinitrotoluene, 2,4-	-		1	0.102	1	-	-	1.36E+09
Dinitrotoluene, 2,6-	-		1	0.099	1	-	-	1.36E+09
Dinitrotoluene, 2-Amino-4,6-	-		1	0.006	1	-	-	1.36E+09
Dinitrotoluene, 4-Amino-2,6-	-		1	0.009	1	-	-	1.36E+09
Dinitrotoluene, Technical grade	-		1	0.1	1	-	-	1.36E+09
Dinoseb	-		1	0.1	1	-	-	1.36E+09
Dioxane, 1,4-	3.00E-02	I	1	-	1	3.96E+04	1.16E+05	1.36E+09
Diphenamid	-		1	0.1	1	-	-	1.36E+09
Diphenyl Sulfone	-		1	0.1	1	-	-	1.36E+09
Diphenylamine	-		1	0.1	1	-	-	1.36E+09
Diphenylhydrazine, 1,2-	-		1	0.1	1	-	-	1.36E+09
Diquat	-		1	0.1	1	-	-	1.36E+09
Direct Black 38	-		1	0.1	1	-	-	1.36E+09
Direct Blue 6	-		1	0.1	1	-	-	1.36E+09
Direct Brown 95	-		1	0.1	1	-	-	1.36E+09
Direct Sky Blue	-		1	0.1	1	-	-	1.36E+09
Disulfoton	-		1	0.1	1	-	-	1.36E+09
Dithiane, 1,4-	-		1	-	1	4.54E+04	-	1.36E+09
Diundecyl Phthalate	-		1	-	-	1.47E+07	-	1.36E+09
Diuron	-		1	0.1	1	-	-	1.36E+09

Site-specific

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Dinitrobenzene, 1,3-	-	-	-	-	5.26E+00	2.22E+01	-
Dinitrobenzene, 1,4-	-	-	-	-	5.26E+00	2.22E+01	-
Dinitrophenol, 2,4-	-	-	-	-	1.05E+02	4.44E+02	-
Dinitrophenols	-	-	-	-	-	-	-
Dinitrosopentamethylenetetramine, N,N-	-	-	-	-	-	-	-
Dinitrotoluene Mixture, 2,4/2,6-	6.88E+00	2.45E+01	-	5.37E+00	-	-	-
Dinitrotoluene, 2,4-	1.51E+01	5.26E+01	3.46E+06	1.17E+01	1.05E+02	4.35E+02	-
Dinitrotoluene, 2,6-	3.12E+00	1.12E+01	-	2.44E+00	1.58E+01	6.72E+01	-
Dinitrotoluene, 2-Amino-4,6-	-	-	-	-	1.05E+02	7.39E+03	-
Dinitrotoluene, 4-Amino-2,6-	-	-	-	-	1.05E+02	4.93E+03	-
Dinitrotoluene, Technical grade	1.04E+01	3.70E+01	-	8.12E+00	4.74E+01	2.00E+02	-
Dinoseb	-	-	-	-	5.26E+01	2.22E+02	-
Dioxane, 1,4-	4.68E+01	-	1.80E+03	4.56E+01	1.58E+03	-	1.00E+04
Diphenamid	-	-	-	-	1.58E+03	6.66E+03	-
Diphenyl Sulfone	-	-	-	-	4.21E+01	1.77E+02	-
Diphenylamine	-	-	-	-	1.32E+03	5.55E+03	-
Diphenylhydrazine, 1,2-	5.85E+00	2.08E+01	1.40E+06	4.57E+00	-	-	-
Diquat	-	-	-	-	1.16E+02	4.88E+02	-
Direct Black 38	6.59E-01	2.34E+00	2.20E+03	5.14E-01	-	-	-
Direct Blue 6	6.32E-01	2.25E+00	2.20E+03	4.93E-01	-	-	-
Direct Brown 95	6.98E-01	2.48E+00	2.20E+03	5.45E-01	-	-	-
Direct Sky Blue	-	-	-	-	-	-	-
Disulfoton	-	-	-	-	2.11E+00	8.87E+00	-
Dithiane, 1,4-	-	-	-	-	5.26E+02	-	-
Diundecyl Phthalate	-	-	-	-	-	-	-
Diuron	-	-	-	-	1.05E+02	4.44E+02	-

Site-specific

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Dinitrobenzene, 1,3-	4.25E+00	5.62E+01	1.33E+02	-	3.95E+01	4.25E+00 nc
Dinitrobenzene, 1,4-	4.25E+00	5.62E+01	1.33E+02	-	3.95E+01	4.25E+00 nc
Dinitrophenol, 2,4-	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	8.51E+01 nc
Dinitrophenols	-	-	-	-	-	
Dinitrosopentamethylenetetramine, N,N-	-	-	-	-	-	
Dinitrotoluene Mixture, 2,4/2,6-	-	-	-	-	-	5.37E+00 ca
Dinitrotoluene, 2,4-	8.48E+01	1.12E+03	2.61E+03	-	7.85E+02	1.17E+01 ca**
Dinitrotoluene, 2,6-	1.28E+01	1.68E+02	4.03E+02	-	1.19E+02	2.44E+00 ca**
Dinitrotoluene, 2-Amino-4,6-	1.04E+02	1.12E+03	4.43E+04	-	1.10E+03	1.04E+02 nc
Dinitrotoluene, 4-Amino-2,6-	1.03E+02	1.12E+03	2.96E+04	-	1.08E+03	1.03E+02 nc
Dinitrotoluene, Technical grade	3.83E+01	5.05E+02	1.20E+03	-	3.55E+02	8.12E+00 ca**
Dinoseb	4.25E+01	5.62E+02	1.33E+03	-	3.95E+02	4.25E+01 nc
Dioxane, 1,4-	1.36E+03	1.68E+04	-	1.00E+04	6.28E+03	4.56E+01 ca*
Diphenamid	1.28E+03	1.68E+04	3.99E+04	-	1.18E+04	1.28E+03 nc
Diphenyl Sulfone	3.40E+01	4.49E+02	1.06E+03	-	3.16E+02	3.40E+01 nc
Diphenylamine	1.06E+03	1.40E+04	3.32E+04	-	9.87E+03	1.06E+03 nc
Diphenylhydrazine, 1,2-	-	-	-	-	-	4.57E+00 ca
Diquat	9.36E+01	1.24E+03	2.93E+03	-	8.69E+02	9.36E+01 nc
Direct Black 38	-	-	-	-	-	5.14E-01 ca
Direct Blue 6	-	-	-	-	-	4.93E-01 ca
Direct Brown 95	-	-	-	-	-	5.45E-01 ca
Direct Sky Blue	-	-	-	-	-	
Disulfoton	1.70E+00	2.25E+01	5.32E+01	-	1.58E+01	1.70E+00 nc
Dithiane, 1,4-	5.26E+02	5.62E+03	-	-	5.62E+03	5.26E+02 nc
Diundecyl Phthalate	-	-	-	-	-	
Diuron	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	8.51E+01 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Dodecyl benzenesulfonic acid	27176-87-0	No	No	-		-		-	
Dodine	2439-10-3	No	No	-		-		4.00E-03	I
Hexachlorodibenzo-p-dioxin	34465-46-8	No	No	1.30E+04	W	3.80E+00	W	7.00E-09	W
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	39227-28-6	No	No	1.30E+04	W	3.80E+00	W	7.00E-09	W
Hexachlorodibenzo-p-dioxin, Mixture	NA	No	No	6.20E+03	I	1.30E+00	I	-	
HpCDD, 2,3,7,8-	37871-00-4	No	Yes	1.30E+03	W	3.80E-01	W	7.00E-08	W
HxCDD, 1,2,3,6,7,8-	57653-85-7	No	No	1.30E+04	W	3.80E+00	W	7.00E-09	W
HxCDD, 1,2,3,7,8,9-	19408-74-3	No	No	1.30E+04	W	3.80E+00	W	7.00E-09	W
OCDD	3268-87-9	No	No	3.90E+01	W	1.14E-02	W	2.33E-06	W
PeCDD, 2,3,7,8-	36088-22-9	No	No	1.30E+05	W	3.80E+01	W	7.00E-10	W
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	No	No	1.30E+05	W	3.80E+01	W	7.00E-10	W
TCDD, 2,3,7,8-	1746-01-6	No	Yes	1.30E+05	C	3.80E+01	C	7.00E-10	I
Endosulfan	115-29-7	No	Yes	-		-		6.00E-03	I
Endosulfan I	959-98-8	No	No	-		-		-	
Endosulfan II	33213-65-9	No	No	-		-		-	
Endosulfan Sulfate	1031-07-8	No	No	-		-		-	
Endothall	145-73-3	No	No	-		-		2.00E-02	I
Endrin	72-20-8	No	No	-		-		3.00E-04	I
Endrin ketone	53494-70-5	No	No	-		-		-	
Endrin aldehyde	7421-93-4	No	No	-		-		-	
Epichlorohydrin	106-89-8	No	Yes	9.90E-03	I	1.20E-06	I	6.00E-03	P

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Dodecyl benzenesulfonic acid	-		1	0.1	1	-	-	1.36E+09
Dodine	-		1	0.1	1	-	-	1.36E+09
Hexachlorodibenzo-p-dioxin	4.00E-07	W	1	0.03	1	-	-	1.36E+09
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	4.00E-07	W	1	0.03	1	-	-	1.36E+09
Hexachlorodibenzo-p-dioxin, Mixture	-		1	0.03	1	-	-	1.36E+09
HpCDD, 2,3,7,8-	4.00E-06	W	1	0.03	1	2.43E+06	-	1.36E+09
HxCDD, 1,2,3,6,7,8-	4.00E-07	W	1	0.03	1	-	-	1.36E+09
HxCDD, 1,2,3,7,8,9-	4.00E-07	W	1	0.03	1	-	-	1.36E+09
OCDD	1.33E-04	W	1	0.03	1	-	-	1.36E+09
PeCDD, 2,3,7,8-	4.00E-08	W	1	0.03	1	-	-	1.36E+09
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	4.00E-08	W	1	0.03	1	-	-	1.36E+09
TCDD, 2,3,7,8-	4.00E-08	C	1	0.03	1	1.96E+06	-	1.36E+09
Endosulfan	-		1	-	1	4.10E+05	-	1.36E+09
Endosulfan I	-		1	-	1	-	-	1.36E+09
Endosulfan II	-		1	-	1	-	-	1.36E+09
Endosulfan Sulfate	-		1	0.1	1	-	-	1.36E+09
Endothall	-		1	0.1	1	-	-	1.36E+09
Endrin	-		1	0.1	1	-	-	1.36E+09
Endrin ketone	-		1	0.1	1	-	-	1.36E+09
Endrin aldehyde	-		1	0.1	1	-	-	1.36E+09
Epichlorohydrin	1.00E-03	I	1	-	1	1.89E+04	1.05E+04	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Dodecyl benzenesulfonic acid	-	-	-	-	-	-	-
Dodine	-	-	-	-	2.11E+02	8.87E+02	-
Hexachlorodibenzo-p-dioxin	3.60E-04	4.26E-03	8.11E+01	3.32E-04	3.69E-04	5.18E-03	4.58E+03
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	3.60E-04	4.26E-03	8.11E+01	3.32E-04	3.69E-04	5.18E-03	4.58E+03
Hexachlorodibenzo-p-dioxin, Mixture	7.55E-04	8.94E-03	2.37E+02	6.96E-04	-	-	-
HpCDD, 2,3,7,8-	3.60E-03	4.26E-02	1.45E+00	3.31E-03	3.69E-03	5.18E-02	8.19E+01
HxCDD, 1,2,3,6,7,8-	3.60E-04	4.26E-03	8.11E+01	3.32E-04	3.69E-04	5.18E-03	4.58E+03
HxCDD, 1,2,3,7,8,9-	3.60E-04	4.26E-03	8.11E+01	3.32E-04	3.69E-04	5.18E-03	4.58E+03
OCDD	1.20E-01	1.42E+00	2.70E+04	1.11E-01	1.23E-01	1.73E+00	1.53E+06
PeCDD, 2,3,7,8-	3.60E-05	4.26E-04	8.11E+00	3.32E-05	3.69E-05	5.18E-04	4.58E+02
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	3.60E-05	4.26E-04	8.11E+00	3.32E-05	3.69E-05	5.18E-04	4.58E+02
TCDD, 2,3,7,8-	3.60E-05	4.26E-04	1.17E-02	3.31E-05	3.69E-05	5.18E-04	6.60E-01
Endosulfan	-	-	-	-	3.16E+02	-	-
Endosulfan I	-	-	-	-	-	-	-
Endosulfan II	-	-	-	-	-	-	-
Endosulfan Sulfate	-	-	-	-	-	-	-
Endothall	-	-	-	-	1.05E+03	4.44E+03	-
Endrin	-	-	-	-	1.58E+01	6.66E+01	-
Endrin ketone	-	-	-	-	-	-	-
Endrin aldehyde	-	-	-	-	-	-	-
Epichlorohydrin	4.73E+02	-	3.57E+03	4.17E+02	3.16E+02	-	1.59E+02

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Dodecyl benzenesulfonic acid	-	-	-	-	-	
Dodine	1.70E+02	2.25E+03	5.32E+03	-	1.58E+03	1.70E+02 nc
Hexachlorodibenzo-p-dioxin	3.44E-04	3.93E-03	3.10E-02	4.58E+03	3.49E-03	3.32E-04 ca**
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	3.44E-04	3.93E-03	3.10E-02	4.58E+03	3.49E-03	3.32E-04 ca**
Hexachlorodibenzo-p-dioxin, Mixture	-	-	-	-	-	6.96E-04 ca
HpCDD, 2,3,7,8-	3.44E-03	3.93E-02	3.10E-01	8.19E+01	3.49E-02	3.31E-03 ca**
HxCDD, 1,2,3,6,7,8-	3.44E-04	3.93E-03	3.10E-02	4.58E+03	3.49E-03	3.32E-04 ca**
HxCDD, 1,2,3,7,8,9-	3.44E-04	3.93E-03	3.10E-02	4.58E+03	3.49E-03	3.32E-04 ca**
OCDD	1.15E-01	1.31E+00	1.03E+01	1.53E+06	1.16E+00	1.11E-01 ca**
PeCDD, 2,3,7,8-	3.44E-05	3.93E-04	3.10E-03	4.58E+02	3.49E-04	3.32E-05 ca**
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	3.44E-05	3.93E-04	3.10E-03	4.58E+02	3.49E-04	3.32E-05 ca**
TCDD, 2,3,7,8-	3.44E-05	3.93E-04	3.10E-03	6.60E-01	3.49E-04	3.31E-05 ca**
Endosulfan	3.16E+02	3.37E+03	-	-	3.37E+03	3.16E+02 nc
Endosulfan I	-	-	-	-	-	
Endosulfan II	-	-	-	-	-	
Endosulfan Sulfate	-	-	-	-	-	
Endothall	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Endrin	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	1.28E+01 nc
Endrin ketone	-	-	-	-	-	
Endrin aldehyde	-	-	-	-	-	
Epichlorohydrin	1.06E+02	3.37E+03	-	1.59E+02	1.52E+02	1.06E+02 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Epoxybutane, 1,2-	106-88-7	No	Yes	-		-		-	
EPTC	759-94-4	No	Yes	-		-		2.50E-02	I
Ethanol	64-17-5	No	Yes	-		-		-	
Ethanol, 2-(2-methoxyethoxy)-	111-77-3	No	No	-		-		4.00E-02	P
Ethephon	16672-87-0	No	No	-		-		5.00E-03	I
Ethion	563-12-2	No	No	-		-		5.00E-04	I
Ethoxy Propanol	52125-53-8	No	Yes	-		-		-	
Ethoxyethanol Acetate, 2-	111-15-9	No	Yes	-		-		1.00E-01	P
Ethoxyethanol, 2-	110-80-5	No	Yes	-		-		9.00E-02	P
Ethyl methane sulfonate	62-50-0	No	No	-		-		-	
Ethyl Acetate	141-78-6	No	Yes	-		-		9.00E-01	I
Ethyl Acrylate	140-88-5	No	Yes	-		-		5.00E-03	P
Ethyl Chloride	75-00-3	No	Yes	-		-		-	
Ethyl Ether	60-29-7	No	Yes	-		-		2.00E-01	I
Ethyl Methacrylate	97-63-2	No	Yes	-		-		-	
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	No	No	-		-		1.00E-05	I
Ethylbenzene	100-41-4	No	Yes	1.10E-02	C	2.50E-06	C	1.00E-01	I
Ethylene Cyanohydrin	109-78-4	No	No	-		-		7.00E-02	P
Ethylene Diamine	107-15-3	No	Yes	-		-		9.00E-02	P
Ethylene Glycol	107-21-1	No	No	-		-		2.00E+00	I
Ethylene Glycol Monobutyl Ether	111-76-2	No	No	-		-		1.00E-01	I
Ethylene Oxide	75-21-8	No	Yes	3.10E-01	C	8.80E-05	C	-	
Ethylene Thiourea	96-45-7	No	No	4.50E-02	C	1.30E-05	C	8.00E-05	I
Ethyleneimine	151-56-4	No	Yes	6.50E+01	C	1.90E-02	C	-	
Ethylphenol, 4-	123-07-9	No	No	-		-		-	
Ethylphthalyl Ethyl Glycolate	84-72-0	No	No	-		-		3.00E+00	I
Tribenuron-methyl	101200-48-0	No	No	-		-		8.00E-03	I
Famphur	52-85-7	No	No	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Epoxybutane, 1,2-	2.00E-02	I	1	-	1	7.66E+03	1.53E+04	1.36E+09
EPTC	-		1	-	1	1.17E+05	-	1.36E+09
Ethanol	-		1	-	1	3.14E+04	1.06E+05	1.36E+09
Ethanol, 2-(2-methoxyethoxy)-	-		1	0.1	1	-	-	1.36E+09
Ethephon	-		1	0.1	1	-	-	1.36E+09
Ethion	-		1	0.1	1	-	-	1.36E+09
Ethoxy Propanol	-		1	-	1	1.46E+05	3.96E+04	1.36E+09
Ethoxyethanol Acetate, 2-	6.00E-02	P	1	-	1	6.15E+04	2.38E+04	1.36E+09
Ethoxyethanol, 2-	2.00E-01	I	1	-	1	9.84E+04	1.06E+05	1.36E+09
Ethyl methane sulfonate	-		1	0.1	1	-	-	1.36E+09
Ethyl Acetate	7.00E-02	P	1	-	1	8.62E+03	1.08E+04	1.36E+09
Ethyl Acrylate	8.00E-03	P	1	-	1	6.34E+03	2.50E+03	1.36E+09
Ethyl Chloride	1.00E+01	I	1	-	1	1.29E+03	2.12E+03	1.36E+09
Ethyl Ether	-		1	-	1	3.12E+03	1.01E+04	1.36E+09
Ethyl Methacrylate	3.00E-01	P	1	-	1	5.77E+03	1.10E+03	1.36E+09
Ethyl-p-nitrophenyl Phosphonate	-		1	0.1	1	-	-	1.36E+09
Ethylbenzene	1.00E+00	I	1	-	1	5.67E+03	4.80E+02	1.36E+09
Ethylene Cyanohydrin	-		1	0.1	1	-	-	1.36E+09
Ethylene Diamine	-		1	-	1	1.80E+05	1.89E+05	1.36E+09
Ethylene Glycol	4.00E-01	C	1	0.1	1	-	-	1.36E+09
Ethylene Glycol Monobutyl Ether	1.60E+00	I	1	0.1	1	-	-	1.36E+09
Ethylene Oxide	3.00E-02	C	1	-	1	6.09E+03	1.21E+05	1.36E+09
Ethylene Thiourea	-		1	0.1	1	-	-	1.36E+09
Ethyleneimine	-		1	-	1	2.39E+04	1.54E+05	1.36E+09
Ethylphenol, 4-	-		1	0.1	1	-	-	1.36E+09
Ethylphthalyl Ethyl Glycolate	-		1	0.1	1	-	-	1.36E+09
Tribenuron-methyl	-		1	0.1	1	-	-	1.36E+09
Famphur	-		1	0.1	1	-	-	1.36E+09

Site-specific

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Epoxybutane, 1,2-	-	-	-	-	-	-	1.29E+03
EPTC	-	-	-	-	1.32E+03	-	-
Ethanol	-	-	-	-	-	-	-
Ethanol, 2-(2-methoxyethoxy)-	-	-	-	-	2.11E+03	8.87E+03	-
Ethephon	-	-	-	-	2.63E+02	1.11E+03	-
Ethion	-	-	-	-	2.63E+01	1.11E+02	-
Ethoxy Propanol	-	-	-	-	-	-	-
Ethoxyethanol Acetate, 2-	-	-	-	-	5.26E+03	-	3.11E+04
Ethoxyethanol, 2-	-	-	-	-	4.74E+03	-	1.66E+05
Ethyl methane sulfonate	-	-	-	-	-	-	-
Ethyl Acetate	-	-	-	-	4.74E+04	-	5.08E+03
Ethyl Acrylate	-	-	-	-	2.63E+02	-	4.27E+02
Ethyl Chloride	-	-	-	-	-	-	1.09E+05
Ethyl Ether	-	-	-	-	1.05E+04	-	-
Ethyl Methacrylate	-	-	-	-	-	-	1.46E+04
Ethyl-p-nitrophenyl Phosphonate	-	-	-	-	5.26E-01	2.22E+00	-
Ethylbenzene	4.25E+02	-	5.14E+02	2.33E+02	5.26E+03	-	4.77E+04
Ethylene Cyanohydrin	-	-	-	-	3.69E+03	1.55E+04	-
Ethylene Diamine	-	-	-	-	4.74E+03	-	-
Ethylene Glycol	-	-	-	-	1.05E+05	4.44E+05	4.58E+09
Ethylene Glycol Monobutyl Ether	-	-	-	-	5.26E+03	2.22E+04	1.83E+10
Ethylene Oxide	1.51E+01	-	1.57E+01	7.69E+00	-	-	1.54E+03
Ethylene Thiourea	1.04E+02	3.70E+02	2.37E+07	8.12E+01	4.21E+00	1.77E+01	-
Ethyleneimine	7.20E-02	-	2.85E-01	5.75E-02	-	-	-
Ethylphenol, 4-	-	-	-	-	-	-	-
Ethylphthalyl Ethyl Glycolate	-	-	-	-	1.58E+05	6.66E+05	-
Tribenuron-methyl	-	-	-	-	4.21E+02	1.77E+03	-
Famphur	-	-	-	-	-	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Epoxybutane, 1,2-	1.29E+03	-	-	1.29E+03	1.29E+03	1.29E+03 nc
EPTC	1.32E+03	1.40E+04	-	-	1.40E+04	1.32E+03 nc
Ethanol	-	-	-	-	-	
Ethanol, 2-(2-methoxyethoxy)-	1.70E+03	2.25E+04	5.32E+04	-	1.58E+04	1.70E+03 nc
Ethephon	2.13E+02	2.81E+03	6.65E+03	-	1.97E+03	2.13E+02 nc
Ethion	2.13E+01	2.81E+02	6.65E+02	-	1.97E+02	2.13E+01 nc
Ethoxy Propanol	-	-	-	-	-	
Ethoxyethanol Acetate, 2-	4.50E+03	5.62E+04	-	3.11E+04	2.00E+04	4.50E+03 nc
Ethoxyethanol, 2-	4.61E+03	5.05E+04	-	1.66E+05	3.87E+04	4.61E+03 nc
Ethyl methane sulfonate	-	-	-	-	-	
Ethyl Acetate	4.59E+03	5.05E+05	-	5.08E+03	5.03E+03	4.59E+03 nc
Ethyl Acrylate	1.63E+02	2.81E+03	-	4.27E+02	3.71E+02	1.63E+02 nc
Ethyl Chloride	1.09E+05	-	-	1.09E+05	1.09E+05	1.09E+05 sat
Ethyl Ether	1.05E+04	1.12E+05	-	-	1.12E+05	1.05E+04 sat
Ethyl Methacrylate	1.46E+04	-	-	1.46E+04	1.46E+04	1.46E+04 sat
Ethyl-p-nitrophenyl Phosphonate	4.25E-01	5.62E+00	1.33E+01	-	3.95E+00	4.25E-01 nc
Ethylbenzene	4.74E+03	5.62E+04	-	4.77E+04	2.58E+04	2.33E+02 ca*
Ethylene Cyanohydrin	2.98E+03	3.93E+04	9.31E+04	-	2.76E+04	2.98E+03 nc
Ethylene Diamine	4.74E+03	5.05E+04	-	-	5.05E+04	4.74E+03 nc
Ethylene Glycol	8.51E+04	1.12E+06	2.66E+06	4.58E+09	7.90E+05	8.51E+04 nc
Ethylene Glycol Monobutyl Ether	4.25E+03	5.62E+04	1.33E+05	1.83E+10	3.95E+04	4.25E+03 nc
Ethylene Oxide	1.54E+03	-	-	1.54E+03	1.54E+03	7.69E+00 ca
Ethylene Thiourea	3.40E+00	4.49E+01	1.06E+02	-	3.16E+01	3.40E+00 nc
Ethyleneimine	-	-	-	-	-	5.75E-02 ca
Ethylphenol, 4-	-	-	-	-	-	
Ethylphthalyl Ethyl Glycolate	1.28E+05	1.68E+06	3.99E+06	-	1.18E+06	1.28E+05 max
Tribenuron-methyl	3.40E+02	4.49E+03	1.06E+04	-	3.16E+03	3.40E+02 nc
Famphur	-	-	-	-	-	

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Fenamiphos	22224-92-6	No	No	-		-		2.50E-04	I
Fenpropathrin	39515-41-8	No	No	-		-		2.50E-02	I
Fluometuron	2164-17-2	No	No	-		-		1.30E-02	I
Fluoride	16984-48-8	No	No	-		-		4.00E-02	C
Fluorine (Soluble Fluoride)	7782-41-4	No	No	-		-		6.00E-02	I
Fluorobenzene	462-06-6	No	Yes	-		-		-	
Fluorobiphenyl, 2-	321-60-8	No	Yes	-		-		-	
Fluorophenol, 2-	367-12-4	No	Yes	-		-		-	
Fluridone	59756-60-4	No	No	-		-		8.00E-02	I
Flurprimidol	56425-91-3	No	No	-		-		2.00E-02	I
Flutolanil	66332-96-5	No	No	-		-		6.00E-02	I
Fluvalinate	69409-94-5	No	No	-		-		1.00E-02	I
Folpet	133-07-3	No	No	3.50E-03	I	-		1.00E-01	I
Fomesafen	72178-02-0	No	No	1.90E-01	I	-		-	
Fonofos	944-22-9	No	No	-		-		2.00E-03	I
Formaldehyde	50-00-0	No	Yes	-		1.30E-05	I	2.00E-01	I
Formic Acid	64-18-6	No	Yes	-		-		9.00E-01	P
Fosetyl-AL	39148-24-8	No	No	-		-		3.00E+00	I
Fuel Oil Number 2	68476-30-2	No	No	-		-		-	
Furazolidone	67-45-8	No	No	3.80E+00	H	-		-	
Furfural	98-01-1	No	Yes	-		-		3.00E-03	I
Furium	531-82-8	No	No	1.50E+00	C	4.30E-04	C	-	
Furmecyclox	60568-05-0	No	No	3.00E-02	I	8.60E-06	C	-	
Dibenzofuran	132-64-9	No	Yes	-		-		1.00E-03	S
Furan	110-00-9	No	Yes	-		-		1.00E-03	I

Site-specific

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Fenamiphos	-		1	0.1	1	-	-	1.36E+09
Fenpropathrin	-		1	0.1	1	-	-	1.36E+09
Fluometuron	-		1	0.1	1	-	-	1.36E+09
Fluoride	1.30E-02	C	1	-	1	-	-	1.36E+09
Fluorine (Soluble Fluoride)	1.30E-02	C	1	-	1	-	-	1.36E+09
Fluorobenzene	-		1	-	1	4.71E+03	2.39E+03	1.36E+09
Fluorobiphenyl, 2-	-		1	-	1	1.24E+05	-	1.36E+09
Fluorophenol, 2-	-		1	-	1	2.12E+05	2.73E+04	1.36E+09
Fluridone	-		1	0.1	1	-	-	1.36E+09
Flurprimidol	-		1	0.1	1	-	-	1.36E+09
Flutolanil	-		1	0.1	1	-	-	1.36E+09
Fluvalinate	-		1	0.1	1	-	-	1.36E+09
Folpet	-		1	0.1	1	-	-	1.36E+09
Fomesafen	-		1	0.1	1	-	-	1.36E+09
Fonofos	-		1	0.1	1	-	-	1.36E+09
Formaldehyde	9.83E-03	A	1	-	1	7.77E+04	4.24E+04	1.36E+09
Formic Acid	3.00E-04	S	1	-	1	9.30E+04	1.06E+05	1.36E+09
Fosetyl-AL	-		1	0.1	1	-	-	1.36E+09
Fuel Oil Number 2	-		1	0.1	1	-	-	1.36E+09
Furazolidone	-		1	0.1	1	-	-	1.36E+09
Furfural	5.00E-02	H	1	-	1	4.86E+04	1.01E+04	1.36E+09
Furium	-		1	0.1	1	-	-	1.36E+09
Furmecyclox	-		1	0.1	1	-	-	1.36E+09
Dibenzofuran	-		1	0.03	1	1.96E+05	-	1.36E+09
Furan	-		1	0.03	1	2.62E+03	6.22E+03	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Fenamiphos	-	-	-	-	1.32E+01	5.55E+01	-
Fenpropathrin	-	-	-	-	1.32E+03	5.55E+03	-
Fluometuron	-	-	-	-	6.84E+02	2.88E+03	-
Fluoride	-	-	-	-	2.11E+03	-	1.49E+08
Fluorine (Soluble Fluoride)	-	-	-	-	3.16E+03	-	1.49E+08
Fluorobenzene	-	-	-	-	-	-	-
Fluorobiphenyl, 2-	-	-	-	-	-	-	-
Fluorophenol, 2-	-	-	-	-	-	-	-
Fluridone	-	-	-	-	4.21E+03	1.77E+04	-
Flurprimidol	-	-	-	-	1.05E+03	4.44E+03	-
Flutolanil	-	-	-	-	3.16E+03	1.33E+04	-
Fluvalinate	-	-	-	-	5.26E+02	2.22E+03	-
Folpet	1.34E+03	4.75E+03	-	1.04E+03	5.26E+03	2.22E+04	-
Fomesafen	2.46E+01	8.75E+01	-	1.92E+01	-	-	-
Fonofos	-	-	-	-	1.05E+02	4.44E+02	-
Formaldehyde	-	-	1.36E+03	1.36E+03	1.05E+04	-	6.43E+03
Formic Acid	-	-	-	-	4.74E+04	-	2.35E+02
Fosetyl-AL	-	-	-	-	1.58E+05	6.66E+05	-
Fuel Oil Number 2	-	-	-	-	-	-	-
Furazolidone	1.23E+00	4.38E+00	-	9.61E-01	-	-	-
Furfural	-	-	-	-	1.58E+02	-	2.05E+04
Furium	3.12E+00	1.11E+01	7.17E+05	2.43E+00	-	-	-
Furmecyclox	1.56E+02	5.54E+02	3.58E+07	1.22E+02	-	-	-
Dibenzofuran	-	-	-	-	5.26E+01	7.39E+02	-
Furan	-	-	-	-	5.26E+01	7.39E+02	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Fenamiphos	1.06E+01	1.40E+02	3.32E+02	-	9.87E+01	1.06E+01 nc
Fenpropathrin	1.06E+03	1.40E+04	3.32E+04	-	9.87E+03	1.06E+03 nc
Fluometuron	5.53E+02	7.30E+03	1.73E+04	-	5.13E+03	5.53E+02 nc
Fluoride	2.11E+03	2.25E+04	-	1.49E+08	2.25E+04	2.11E+03 nc
Fluorine (Soluble Fluoride)	3.16E+03	3.37E+04	-	1.49E+08	3.37E+04	3.16E+03 nc
Fluorobenzene	-	-	-	-	-	
Fluorobiphenyl, 2-	-	-	-	-	-	
Fluorophenol, 2-	-	-	-	-	-	
Fluridone	3.40E+03	4.49E+04	1.06E+05	-	3.16E+04	3.40E+03 nc
Flurprimidol	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Flutolanil	2.55E+03	3.37E+04	7.98E+04	-	2.37E+04	2.55E+03 nc
Fluvalinate	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	4.25E+02 nc
Folpet	4.25E+03	5.62E+04	1.33E+05	-	3.95E+04	1.04E+03 ca**
Fomesafen	-	-	-	-	-	1.92E+01 ca
Fonofos	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	8.51E+01 nc
Formaldehyde	3.99E+03	1.12E+05	-	6.43E+03	6.08E+03	1.36E+03 ca**
Formic Acid	2.34E+02	5.05E+05	-	2.35E+02	2.35E+02	2.34E+02 nc
Fosetyl-AL	1.28E+05	1.68E+06	3.99E+06	-	1.18E+06	1.28E+05 max
Fuel Oil Number 2	-	-	-	-	-	
Furazolidone	-	-	-	-	-	9.61E-01 ca
Furfural	1.57E+02	1.68E+03	-	2.05E+04	1.56E+03	1.57E+02 nc
Furium	-	-	-	-	-	2.43E+00 ca
Furmecyclox	-	-	-	-	-	1.22E+02 ca
Dibenzofuran	4.91E+01	5.62E+02	4.43E+03	-	4.98E+02	4.91E+01 nc
Furan	4.91E+01	5.62E+02	4.43E+03	-	4.98E+02	4.91E+01 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562-39-4	No	Yes	1.30E+03	W	3.80E-01	W	7.00E-08	W
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	No	Yes	1.30E+04	W	3.80E+00	W	7.00E-09	W
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	No	Yes	1.30E+03	W	3.80E-01	W	7.00E-08	W
HpCDF, 2,3,7,8-	38998-75-3	No	Yes	1.30E+03	W	3.80E-01	W	7.00E-08	W
HxCDF, 1,2,3,6,7,8-	57117-44-9	No	Yes	1.30E+04	W	3.80E+00	W	7.00E-09	W
HxCDF, 1,2,3,7,8,9-	72918-21-9	No	No	1.30E+04	W	3.80E+00	W	7.00E-09	W
HxCDF, 2,3,4,6,7,8-	60851-34-5	No	No	1.30E+04	W	3.80E+00	W	7.00E-09	W
HxCDF, 2,3,7,8-	55684-94-1	No	No	1.30E+04	W	3.80E+00	W	7.00E-09	W
OCDF	39001-02-0	No	No	3.90E+01	W	1.14E-02	W	2.33E-06	W
PeCDF, 1,2,3,7,8-	57117-41-6	No	No	3.90E+03	W	1.14E+00	W	2.33E-08	W
PeCDF, 2,3,4,7,8-	57117-31-4	No	No	3.90E+04	W	1.14E+01	W	2.33E-09	W
TCDF, 2,3,7,8-	51207-31-9	No	Yes	1.30E+04	W	3.80E+00	W	7.00E-09	W
Tetrahydrofuran	109-99-9	No	Yes	-		-		9.00E-01	I
Gadolinium	7440-54-2	No	No	-		-		-	
Gallium	7440-55-3	No	No	-		-		-	
Germanium	7440-56-4	No	No	-		-		-	
Glufosinate, Ammonium	77182-82-2	No	No	-		-		4.00E-04	I
Glutaraldehyde	111-30-8	No	No	-		-		-	

Site-specific

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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	4.00E-06	W	1	0.03	1	8.37E+06	-	1.36E+09
Hexachlorodibenzofuran, 1,2,3,4,7,8-	4.00E-07	W	1	0.03	1	3.91E+06	-	1.36E+09
HpCDF, 1,2,3,4,7,8,9-	4.00E-06	W	1	0.03	1	8.37E+06	-	1.36E+09
HpCDF, 2,3,7,8-	4.00E-06	W	1	0.03	1	8.37E+06	-	1.36E+09
HxCDF, 1,2,3,6,7,8-	4.00E-07	W	1	0.03	1	3.91E+06	-	1.36E+09
HxCDF, 1,2,3,7,8,9-	4.00E-07	W	1	0.03	1	-	-	1.36E+09
HxCDF, 2,3,4,6,7,8-	4.00E-07	W	1	0.03	1	-	-	1.36E+09
HxCDF, 2,3,7,8-	4.00E-07	W	1	0.03	1	-	-	1.36E+09
OCDF	1.33E-04	W	1	0.03	1	-	-	1.36E+09
PeCDF, 1,2,3,7,8-	1.33E-06	W	1	0.03	1	-	-	1.36E+09
PeCDF, 2,3,4,7,8-	1.33E-07	W	1	0.03	1	-	-	1.36E+09
TCDF, 2,3,7,8-	4.00E-07	W	1	0.03	1	3.41E+06	-	1.36E+09
Tetrahydrofuran	2.00E+00	I	1	0.03	1	1.22E+04	1.65E+05	1.36E+09
Gadolinium	-		1	-	1	-	-	1.36E+09
Gallium	-		1	-	1	-	-	1.36E+09
Germanium	-		1	-	1	-	-	1.36E+09
Glufosinate, Ammonium	-		1	0.1	1	-	-	1.36E+09
Glutaraldehyde	8.00E-05	C	1	0.1	1	-	-	1.36E+09

Site-specific

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	3.60E-03	4.26E-02	4.96E+00	3.32E-03	3.69E-03	5.18E-02	2.80E+02
Hexachlorodibenzofuran, 1,2,3,4,7,8-	3.60E-04	4.26E-03	2.33E-01	3.31E-04	3.69E-04	5.18E-03	1.31E+01
HpCDF, 1,2,3,4,7,8,9-	3.60E-03	4.26E-02	4.96E+00	3.32E-03	3.69E-03	5.18E-02	2.80E+02
HpCDF, 2,3,7,8-	3.60E-03	4.26E-02	4.96E+00	3.32E-03	3.69E-03	5.18E-02	2.80E+02
HxCDF, 1,2,3,6,7,8-	3.60E-04	4.26E-03	2.33E-01	3.31E-04	3.69E-04	5.18E-03	1.31E+01
HxCDF, 1,2,3,7,8,9-	3.60E-04	4.26E-03	8.11E+01	3.32E-04	3.69E-04	5.18E-03	4.58E+03
HxCDF, 2,3,4,6,7,8-	3.60E-04	4.26E-03	8.11E+01	3.32E-04	3.69E-04	5.18E-03	4.58E+03
HxCDF, 2,3,7,8-	3.60E-04	4.26E-03	8.11E+01	3.32E-04	3.69E-04	5.18E-03	4.58E+03
OCDF	1.20E-01	1.42E+00	2.70E+04	1.11E-01	1.23E-01	1.73E+00	1.53E+06
PeCDF, 1,2,3,7,8-	1.20E-03	1.42E-02	2.70E+02	1.11E-03	1.23E-03	1.73E-02	1.53E+04
PeCDF, 2,3,4,7,8-	1.20E-04	1.42E-03	2.70E+01	1.11E-04	1.23E-04	1.73E-03	1.53E+03
TCDF, 2,3,7,8-	3.60E-04	4.26E-03	2.03E-01	3.31E-04	3.69E-04	5.18E-03	1.15E+01
Tetrahydrofuran	-	-	-	-	4.74E+04	6.66E+05	2.06E+05
Gadolinium	-	-	-	-	-	-	-
Gallium	-	-	-	-	-	-	-
Germanium	-	-	-	-	-	-	-
Glufosinate, Ammonium	-	-	-	-	2.11E+01	8.87E+01	-
Glutaraldehyde	-	-	-	-	-	-	9.16E+05

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	3.44E-03	3.93E-02	3.10E-01	2.80E+02	3.49E-02	3.32E-03 ca**
Hexachlorodibenzofuran, 1,2,3,4,7,8-	3.44E-04	3.93E-03	3.10E-02	1.31E+01	3.49E-03	3.31E-04 ca**
HpCDF, 1,2,3,4,7,8,9-	3.44E-03	3.93E-02	3.10E-01	2.80E+02	3.49E-02	3.32E-03 ca**
HpCDF, 2,3,7,8-	3.44E-03	3.93E-02	3.10E-01	2.80E+02	3.49E-02	3.32E-03 ca**
HxCDF, 1,2,3,6,7,8-	3.44E-04	3.93E-03	3.10E-02	1.31E+01	3.49E-03	3.31E-04 ca**
HxCDF, 1,2,3,7,8,9-	3.44E-04	3.93E-03	3.10E-02	4.58E+03	3.49E-03	3.32E-04 ca**
HxCDF, 2,3,4,6,7,8-	3.44E-04	3.93E-03	3.10E-02	4.58E+03	3.49E-03	3.32E-04 ca**
HxCDF, 2,3,7,8-	3.44E-04	3.93E-03	3.10E-02	4.58E+03	3.49E-03	3.32E-04 ca**
OCDF	1.15E-01	1.31E+00	1.03E+01	1.53E+06	1.16E+00	1.11E-01 ca**
PeCDF, 1,2,3,7,8-	1.15E-03	1.31E-02	1.03E-01	1.53E+04	1.16E-02	1.11E-03 ca**
PeCDF, 2,3,4,7,8-	1.15E-04	1.31E-03	1.03E-02	1.53E+03	1.16E-03	1.11E-04 ca**
TCDF, 2,3,7,8-	3.44E-04	3.93E-03	3.10E-02	1.15E+01	3.49E-03	3.31E-04 ca**
Tetrahydrofuran	3.64E+04	5.05E+05	3.99E+06	2.06E+05	1.41E+05	3.64E+04 nc
Gadolinium	-	-	-	-	-	
Gallium	-	-	-	-	-	
Germanium	-	-	-	-	-	
Glufosinate, Ammonium	1.70E+01	2.25E+02	5.32E+02	-	1.58E+02	1.70E+01 nc
Glutaraldehyde	9.16E+05	-	-	9.16E+05	9.16E+05	9.16E+05 max

Site-specific

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Glycerol	56-81-5	No	No	-		-		-	
Glycidyl	765-34-4	No	Yes	-		-		4.00E-04	I
Glyphosate	1071-83-6	No	No	-		-		1.00E-01	I
Oxyfluorfen	42874-03-3	No	No	-		-		3.00E-03	I
Guanidine Chloride	50-01-1	No	No	-		-		2.00E-02	P
Guanidine	113-00-8	No	Yes	-		-		1.00E-02	S
Guanidine Nitrate	506-93-4	No	No	-		-		-	
Azinphos-methyl	86-50-0	No	No	-		-		3.00E-03	A
Haloacetic acids	NA	No	No	-		-		-	
Haloxyfop, Methyl	69806-40-2	No	No	-		-		5.00E-05	I
Thifensulfuron-methyl	79277-27-3	No	No	-		-		1.30E-02	I
HCDD, 1,2,3,4,6,7,8,-	35822-46-9	No	Yes	1.30E+03	C	3.80E-01	C	1.00E-06	C
Heptachlor	76-44-8	No	Yes	4.50E+00	I	1.30E-03	I	5.00E-04	I
Heptachlor Epoxide	1024-57-3	No	Yes	9.10E+00	I	2.60E-03	I	1.30E-05	I
Heptanal, n-	111-71-7	No	Yes	-		-		-	
Heptane, N-	142-82-5	No	Yes	-		-		-	
Heptanol, n-	111-70-6	No	Yes	-		-		-	
Hexabromobenzene	87-82-1	No	Yes	-		-		2.00E-03	I
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2	No	No	-		-		2.00E-04	I
Hexachlorobenzene	118-74-1	No	Yes	1.60E+00	I	4.60E-04	I	8.00E-04	I
Hexachlorobutadiene	87-68-3	No	Yes	7.80E-02	I	2.20E-05	I	1.00E-03	P
Hexachlorocyclohexane, Alpha-	319-84-6	No	No	6.30E+00	I	1.80E-03	I	8.00E-03	A
Hexachlorocyclohexane, Beta-	319-85-7	No	No	1.80E+00	I	5.30E-04	I	-	
Hexachlorocyclohexane, Delta-	319-86-8	No	No	-		-		-	
Hexachlorocyclohexane, Epsilon	6108-10-7	No	No	-		-		-	
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	No	No	1.10E+00	C	3.10E-04	C	3.00E-04	I
Hexachlorocyclohexane, Technical	608-73-1	No	No	1.80E+00	I	5.10E-04	I	-	

Site-specific

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Glycerol	-		1	0.1	1	-	-	1.36E+09
Glycidyl	1.00E-03	H	1	-	1	8.43E+04	1.06E+05	1.36E+09
Glyphosate	-		1	0.1	1	-	-	1.36E+09
Oxyfluorfen	-		1	0.1	1	-	-	1.36E+09
Guanidine Chloride	-		1	0.1	1	-	-	1.36E+09
Guanidine	-		1	-	1	1.45E+05	-	1.36E+09
Guanidine Nitrate	-		1	0.1	1	-	-	1.36E+09
Azinphos-methyl	1.00E-02	A	1	0.1	1	-	-	1.36E+09
Haloacetic acids	-		1	0.1	1	-	-	1.36E+09
Haloxyfop, Methyl	-		1	0.1	1	-	-	1.36E+09
Thifensulfuron-methyl	-		1	0.1	1	-	-	1.36E+09
HCDD, 1,2,3,4,6,7,8,-	4.00E-06	C	1	-	1	3.28E+06	-	1.36E+09
Heptachlor	-		1	-	1	4.79E+05	-	1.36E+09
Heptachlor Epoxide	-		1	-	1	8.43E+05	-	1.36E+09
Heptanal, n-	-		1	-	1	7.80E+03	2.09E+02	1.36E+09
Heptane, N-	-		1	-	1	8.95E+02	5.79E+01	1.36E+09
Heptanol, n-	-		1	-	1	3.43E+04	3.78E+02	1.36E+09
Hexabromobenzene	-		1	-	1	3.80E+05	-	1.36E+09
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	-		1	0.1	1	-	-	1.36E+09
Hexachlorobenzene	-		1	-	1	6.80E+04	-	1.36E+09
Hexachlorobutadiene	-		1	-	1	1.08E+04	1.68E+01	1.36E+09
Hexachlorocyclohexane, Alpha-	-		1	0.1	1	-	-	1.36E+09
Hexachlorocyclohexane, Beta-	-		1	0.1	1	-	-	1.36E+09
Hexachlorocyclohexane, Delta-	-		1	0.1	1	-	-	1.36E+09
Hexachlorocyclohexane, Epsilon	-		1	0.1	1	-	-	1.36E+09
Hexachlorocyclohexane, Gamma- (Lindane)	-		1	0.04	1	-	-	1.36E+09
Hexachlorocyclohexane, Technical	-		1	0.1	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Glycerol	-	-	-	-	-	-	-
Glycidyl	-	-	-	-	2.11E+01	-	7.10E+02
Glyphosate	-	-	-	-	5.26E+03	2.22E+04	-
Oxyfluorfen	-	-	-	-	1.58E+02	6.66E+02	-
Guanidine Chloride	-	-	-	-	1.05E+03	4.44E+03	-
Guanidine	-	-	-	-	5.26E+02	-	-
Guanidine Nitrate	-	-	-	-	-	-	-
Azinphos-methyl	-	-	-	-	1.58E+02	6.66E+02	1.14E+08
Haloacetic acids	-	-	-	-	-	-	-
Haloxyfop, Methyl	-	-	-	-	2.63E+00	1.11E+01	-
Thifensulfuron-methyl	-	-	-	-	6.84E+02	2.88E+03	-
HCDD, 1,2,3,4,6,7,8,-	3.60E-03	-	1.95E+00	3.59E-03	5.26E-02	-	1.10E+02
Heptachlor	1.04E+00	-	8.36E+01	1.03E+00	2.63E+01	-	-
Heptachlor Epoxide	5.14E-01	-	7.35E+01	5.11E-01	6.84E-01	-	-
Heptanal, n-	-	-	-	-	-	-	-
Heptane, N-	-	-	-	-	-	-	-
Heptanol, n-	-	-	-	-	-	-	-
Hexabromobenzene	-	-	-	-	1.05E+02	-	-
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	-	-	-	-	1.05E+01	4.44E+01	-
Hexachlorobenzene	2.92E+00	-	3.35E+01	2.69E+00	4.21E+01	-	-
Hexachlorobutadiene	6.00E+01	-	1.11E+02	3.90E+01	5.26E+01	-	-
Hexachlorocyclohexane, Alpha-	7.43E-01	2.64E+00	1.71E+05	5.80E-01	4.21E+02	1.77E+03	-
Hexachlorocyclohexane, Beta-	2.60E+00	9.24E+00	5.82E+05	2.03E+00	-	-	-
Hexachlorocyclohexane, Delta-	-	-	-	-	-	-	-
Hexachlorocyclohexane, Epsilon	-	-	-	-	-	-	-
Hexachlorocyclohexane, Gamma- (Lindane)	4.25E+00	3.78E+01	9.94E+05	3.82E+00	1.58E+01	1.66E+02	-
Hexachlorocyclohexane, Technical	2.60E+00	9.24E+00	6.04E+05	2.03E+00	-	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Glycerol	-	-	-	-	-	
Glycidyl	2.05E+01	2.25E+02	-	7.10E+02	1.71E+02	2.05E+01 nc
Glyphosate	4.25E+03	5.62E+04	1.33E+05	-	3.95E+04	4.25E+03 nc
Oxyfluorfen	1.28E+02	1.68E+03	3.99E+03	-	1.18E+03	1.28E+02 nc
Guanidine Chloride	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Guanidine	5.26E+02	5.62E+03	-	-	5.62E+03	5.26E+02 nc
Guanidine Nitrate	-	-	-	-	-	
Azinphos-methyl	1.28E+02	1.68E+03	3.99E+03	1.14E+08	1.18E+03	1.28E+02 nc
Haloacetic acids	-	-	-	-	-	
Haloxyfop, Methyl	2.13E+00	2.81E+01	6.65E+01	-	1.97E+01	2.13E+00 nc
Thifensulfuron-methyl	5.53E+02	7.30E+03	1.73E+04	-	5.13E+03	5.53E+02 nc
HCDD, 1,2,3,4,6,7,8,-	5.26E-02	5.62E-01	-	1.10E+02	5.59E-01	3.59E-03 ca*
Heptachlor	2.63E+01	2.81E+02	-	-	2.81E+02	1.03E+00 ca*
Heptachlor Epoxide	6.84E-01	7.30E+00	-	-	7.30E+00	5.11E-01 ca**
Heptanal, n-	-	-	-	-	-	
Heptane, N-	-	-	-	-	-	
Heptanol, n-	-	-	-	-	-	
Hexabromobenzene	1.05E+02	1.12E+03	-	-	1.12E+03	1.05E+02 nc
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	8.51E+00	1.12E+02	2.66E+02	-	7.90E+01	8.51E+00 nc
Hexachlorobenzene	4.21E+01	4.49E+02	-	-	4.49E+02	2.69E+00 ca*
Hexachlorobutadiene	5.26E+01	5.62E+02	-	-	5.62E+02	3.90E+01 sat
Hexachlorocyclohexane, Alpha-	3.40E+02	4.49E+03	1.06E+04	-	3.16E+03	5.80E-01 ca
Hexachlorocyclohexane, Beta-	-	-	-	-	-	2.03E+00 ca
Hexachlorocyclohexane, Delta-	-	-	-	-	-	
Hexachlorocyclohexane, Epsilon	-	-	-	-	-	
Hexachlorocyclohexane, Gamma- (Lindane)	1.44E+01	1.68E+02	9.97E+02	-	1.44E+02	3.82E+00 ca**
Hexachlorocyclohexane, Technical	-	-	-	-	-	2.03E+00 ca

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Hexachlorocyclopentadiene	77-47-4	No	Yes	-		-		6.00E-03	I
Hexachloroethane	67-72-1	No	Yes	4.00E-02	I	1.10E-05	C	7.00E-04	I
Hexachlorophene	70-30-4	No	No	-		-		3.00E-04	I
Hexachloropropene	1888-71-7	No	Yes	-		-		-	
Hexadecanoic Acid	57-10-3	No	Yes	-		-		-	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	No	No	1.10E-01	I	-		3.00E-03	I
Hexamethylene Diisocyanate, 1,6-	822-06-0	No	Yes	-		-		-	
Hexamethylphosphoramide	680-31-9	No	No	-		-		4.00E-04	P
Hexane, N-	110-54-3	No	Yes	-		-		-	
Hexanedioic Acid	124-04-9	No	No	-		-		2.00E+00	P
Hexanol, n-	111-27-3	No	Yes	-		-		-	
Hexanone, 2-	591-78-6	No	Yes	-		-		5.00E-03	I
Hexazinone	51235-04-2	No	No	-		-		3.30E-02	I
Hydrazine	302-01-2	No	Yes	3.00E+00	I	4.90E-03	I	-	
Hydrazine Sulfate	10034-93-2	No	No	3.00E+00	I	4.90E-03	I	-	
Hydrogen Chloride	7647-01-0	No	Yes	-		-		-	
Hydrogen Fluoride	7664-39-3	No	Yes	-		-		4.00E-02	C
Hydrogen Selenide	7783-07-5	No	Yes	-		-		-	
Hydrogen Sulfate	12143-45-2	No	No	-		-		-	
Hydrogen Sulfide	7783-06-4	No	Yes	-		-		-	
Hydroquinone	123-31-9	No	No	6.00E-02	P	-		4.00E-02	P
Imazalil	35554-44-0	No	No	-		-		1.30E-02	I
Imazaquin	81335-37-7	No	No	-		-		2.50E-01	I
Indium	7440-74-6	No	No	-		-		-	
Iodide	20461-54-5	No	No	-		-		-	
Iodine	7553-56-2	No	No	-		-		1.00E-02	A

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Hexachlorocyclopentadiene	2.00E-04	I	1	-	1	8.51E+03	1.57E+01	1.36E+09
Hexachloroethane	3.00E-02	I	1	-	1	8.01E+03	-	1.36E+09
Hexachlorophene	-		1	0.1	1	-	-	1.36E+09
Hexachloropropene	-		1	-	1	1.07E+04	4.38E+01	1.36E+09
Hexadecanoic Acid	-		1	-	1	5.56E+05	-	1.36E+09
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	-		1	0.015	1	-	-	1.36E+09
Hexamethylene Diisocyanate, 1,6-	1.00E-05	I	1	-	1	3.00E+05	3.39E+03	1.36E+09
Hexamethylphosphoramide	-		1	0.1	1	-	-	1.36E+09
Hexane, N-	7.00E-01	I	1	-	1	8.29E+02	1.41E+02	1.36E+09
Hexanedioic Acid	-		1	0.1	1	-	-	1.36E+09
Hexanol, n-	-		1	-	1	2.93E+04	9.99E+02	1.36E+09
Hexanone, 2-	3.00E-02	I	1	-	1	1.33E+04	3.28E+03	1.36E+09
Hexazinone	-		1	0.1	1	-	-	1.36E+09
Hydrazine	3.00E-05	P	1	-	1	-	-	1.36E+09
Hydrazine Sulfate	-		1	-	1	-	-	1.36E+09
Hydrogen Chloride	2.00E-02	I	1	-	1	-	-	1.36E+09
Hydrogen Fluoride	1.40E-02	C	1	-	1	-	-	1.36E+09
Hydrogen Selenide	-		1	-	1	-	-	1.36E+09
Hydrogen Sulfate	-		1	-	1	-	-	1.36E+09
Hydrogen Sulfide	2.00E-03	I	1	-	1	-	-	1.36E+09
Hydroquinone	-		1	0.1	1	-	-	1.36E+09
Imazalil	-		1	0.1	1	-	-	1.36E+09
Imazaquin	-		1	0.1	1	-	-	1.36E+09
Indium	-		1	-	1	-	-	1.36E+09
Iodide	-		1	-	1	-	-	1.36E+09
Iodine	-		1	-	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Hexachlorocyclopentadiene	-	-	-	-	3.16E+02	-	1.43E+01
Hexachloroethane	1.17E+02	-	1.65E+02	6.85E+01	3.69E+01	-	2.02E+03
Hexachlorophene	-	-	-	-	1.58E+01	6.66E+01	-
Hexachloropropene	-	-	-	-	-	-	-
Hexadecanoic Acid	-	-	-	-	-	-	-
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	4.25E+01	1.01E+03	-	4.08E+01	1.58E+02	4.44E+03	-
Hexamethylene Diisocyanate, 1,6-	-	-	-	-	-	-	2.53E+01
Hexamethylphosphoramide	-	-	-	-	2.11E+01	8.87E+01	-
Hexane, N-	-	-	-	-	-	-	4.89E+03
Hexanedioic Acid	-	-	-	-	1.05E+05	4.44E+05	-
Hexanol, n-	-	-	-	-	-	-	-
Hexanone, 2-	-	-	-	-	2.63E+02	-	3.36E+03
Hexazinone	-	-	-	-	1.74E+03	7.32E+03	-
Hydrazine	1.56E+00	-	6.29E+04	1.56E+00	-	-	3.43E+05
Hydrazine Sulfate	1.56E+00	-	6.29E+04	1.56E+00	-	-	-
Hydrogen Chloride	-	-	-	-	-	-	2.29E+08
Hydrogen Fluoride	-	-	-	-	2.11E+03	-	1.60E+08
Hydrogen Selenide	-	-	-	-	-	-	-
Hydrogen Sulfate	-	-	-	-	-	-	-
Hydrogen Sulfide	-	-	-	-	-	-	2.29E+07
Hydroquinone	7.80E+01	2.77E+02	-	6.09E+01	2.11E+03	8.87E+03	-
Imazalil	-	-	-	-	6.84E+02	2.88E+03	-
Imazaquin	-	-	-	-	1.32E+04	5.55E+04	-
Indium	-	-	-	-	-	-	-
Iodide	-	-	-	-	-	-	-
Iodine	-	-	-	-	5.26E+02	-	-

Site-specific

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Hexachlorocyclopentadiene	1.37E+01	3.37E+03	-	1.43E+01	1.43E+01	1.37E+01 nc
Hexachloroethane	3.62E+01	3.93E+02	-	2.02E+03	3.29E+02	3.62E+01 nc
Hexachlorophene	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	1.28E+01 nc
Hexachloropropene	-	-	-	-	-	
Hexadecanoic Acid	-	-	-	-	-	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.53E+02	1.68E+03	2.66E+04	-	1.58E+03	4.08E+01 ca**
Hexamethylene Diisocyanate, 1,6-	2.53E+01	-	-	2.53E+01	2.53E+01	2.53E+01 nc
Hexamethylphosphoramide	1.70E+01	2.25E+02	5.32E+02	-	1.58E+02	1.70E+01 nc
Hexane, N-	4.89E+03	-	-	4.89E+03	4.89E+03	4.89E+03 sat
Hexanedioic Acid	8.51E+04	1.12E+06	2.66E+06	-	7.90E+05	8.51E+04 nc
Hexanol, n-	-	-	-	-	-	
Hexanone, 2-	2.44E+02	2.81E+03	-	3.36E+03	1.53E+03	2.44E+02 nc
Hexazinone	1.40E+03	1.85E+04	4.39E+04	-	1.30E+04	1.40E+03 nc
Hydrazine	3.43E+05	-	-	3.43E+05	3.43E+05	1.56E+00 ca
Hydrazine Sulfate	-	-	-	-	-	1.56E+00 ca
Hydrogen Chloride	2.29E+08	-	-	2.29E+08	2.29E+08	2.29E+08 max
Hydrogen Fluoride	2.11E+03	2.25E+04	-	1.60E+08	2.25E+04	2.11E+03 nc
Hydrogen Selenide	-	-	-	-	-	
Hydrogen Sulfate	-	-	-	-	-	
Hydrogen Sulfide	2.29E+07	-	-	2.29E+07	2.29E+07	2.29E+07 max
Hydroquinone	1.70E+03	2.25E+04	5.32E+04	-	1.58E+04	6.09E+01 ca*
Imazalil	5.53E+02	7.30E+03	1.73E+04	-	5.13E+03	5.53E+02 nc
Imazaquin	1.06E+04	1.40E+05	3.32E+05	-	9.87E+04	1.06E+04 nc
Indium	-	-	-	-	-	
Iodide	-	-	-	-	-	
Iodine	5.26E+02	5.62E+03	-	-	5.62E+03	5.26E+02 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Iodomethane	74-88-4	No	Yes	-		-		-	
Iodopropynyl Butylcarbamate (IPBC)	55406-53-6	No	No	-		-		-	
Iprodione	36734-19-7	No	No	-		-		4.00E-02	I
Iron	7439-89-6	No	No	-		-		7.00E-01	P
Iron Sulfide	11126-12-8	No	No	-		-		-	
Isobutyl Alcohol	78-83-1	No	Yes	-		-		3.00E-01	I
Isodrin	465-73-6	No	Yes	-		-		-	
Isophorone	78-59-1	No	No	9.50E-04	I	-		2.00E-01	I
Isopropalin	33820-53-0	No	Yes	-		-		1.50E-02	I
Isopropanol	67-63-0	No	Yes	-		-		2.00E+00	P
Isopropyl Methyl Phosphonic Acid	1832-54-8	No	No	-		-		1.00E-01	I
Isopropyltoluene, p-	99-87-6	No	Yes	-		-		-	
Isosafrole	120-58-1	No	Yes	-		-		-	
Isoxaben	82558-50-7	No	No	-		-		5.00E-02	I
JP-4	50815-00-4	No	Yes	-		-		-	
JP-5	8002-20-6	No	Yes	-		-		-	
JP-7	NA	No	Yes	-		-		-	
Propyzamide	23950-58-5	No	No	-		-		7.50E-02	I
Kerosene	8008-20-6	No	Yes	-		-		-	
Lactofen	77501-63-4	No	No	-		-		2.00E-03	I
Lactonitrile	78-97-7	No	No	-		-		-	
Lanthanum	7439-91-0	No	No	-		-		-	
Lewisite	541-25-3	No	Yes	-		-		5.00E-06	P
Linuron	330-55-2	No	No	-		-		2.00E-03	I
Lithium	7439-93-2	No	No	-		-		2.00E-03	P
Bensulfuron-methyl	83055-99-6	No	No	-		-		2.00E-01	I
Lutetium	7439-94-3	No	No	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Iodomethane	-		1	-	1	1.85E+03	3.04E+03	1.36E+09
Iodopropynyl Butylcarbamate (IPBC)	-		1	0.1	1	-	-	1.36E+09
Iprodione	-		1	0.1	1	-	-	1.36E+09
Iron	-		1	-	1	-	-	1.36E+09
Iron Sulfide	-		1	-	1	-	-	1.36E+09
Isobutyl Alcohol	-		1	-	1	2.81E+04	1.00E+04	1.36E+09
Isodrin	-		1	-	1	1.68E+06	-	1.36E+09
Isophorone	2.00E+00	C	1	0.1	1	-	-	1.36E+09
Isopropalin	-		1	-	1	4.20E+05	-	1.36E+09
Isopropanol	2.00E-01	P	1	-	1	2.77E+04	1.09E+05	1.36E+09
Isopropyl Methyl Phosphonic Acid	-		1	0.1	1	-	-	1.36E+09
Isopropyltoluene, p-	-		1	-	1	8.53E+03	1.62E+02	1.36E+09
Isosafrole	-		1	-	1	2.48E+03	2.34E+02	1.36E+09
Isoxaben	-		1	0.1	1	-	-	1.36E+09
JP-4	-		1	-	1	-	-	1.36E+09
JP-5	-		1	-	1	-	-	1.36E+09
JP-7	3.00E-01	A	1	-	1	-	-	1.36E+09
Propyzamide	-		1	0.1	1	-	-	1.36E+09
Kerosene	-		1	-	1	-	-	1.36E+09
Lactofen	-		1	0.1	1	-	-	1.36E+09
Lactonitrile	-		1	0.1	1	-	-	1.36E+09
Lanthanum	-		1	-	1	-	-	1.36E+09
Lewisite	-		1	-	1	2.55E+04	3.83E+02	1.36E+09
Linuron	-		1	0.1	1	-	-	1.36E+09
Lithium	-		1	-	1	-	-	1.36E+09
Bensulfuron-methyl	-		1	0.1	1	-	-	1.36E+09
Lutetium	-		1	-	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Iodomethane	-	-	-	-	-	-	-
Iodopropynyl Butylcarbamate (IPBC)	-	-	-	-	-	-	-
Iprodione	-	-	-	-	2.11E+03	8.87E+03	-
Iron	-	-	-	-	3.69E+04	-	-
Iron Sulfide	-	-	-	-	-	-	-
Isobutyl Alcohol	-	-	-	-	1.58E+04	-	-
Isodrin	-	-	-	-	-	-	-
Isophorone	4.93E+03	1.75E+04	-	3.84E+03	1.05E+04	4.44E+04	2.29E+10
Isopropalin	-	-	-	-	7.90E+02	-	-
Isopropanol	-	-	-	-	1.05E+05	-	4.67E+04
Isopropyl Methyl Phosphonic Acid	-	-	-	-	5.26E+03	2.22E+04	-
Isopropyltoluene, p-	-	-	-	-	-	-	-
Isosafrole	-	-	-	-	-	-	-
Isoxaben	-	-	-	-	2.63E+03	1.11E+04	-
JP-4	-	-	-	-	-	-	-
JP-5	-	-	-	-	-	-	-
JP-7	-	-	-	-	-	-	3.43E+09
Propyzamide	-	-	-	-	3.95E+03	1.66E+04	-
Kerosene	-	-	-	-	-	-	-
Lactofen	-	-	-	-	1.05E+02	4.44E+02	-
Lactonitrile	-	-	-	-	-	-	-
Lanthanum	-	-	-	-	-	-	-
Lewisite	-	-	-	-	2.63E-01	-	-
Linuron	-	-	-	-	1.05E+02	4.44E+02	-
Lithium	-	-	-	-	1.05E+02	-	-
Bensulfuron-methyl	-	-	-	-	1.05E+04	4.44E+04	-
Lutetium	-	-	-	-	-	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Iodomethane	-	-	-	-	-	
Iodopropynyl Butylcarbamate (IPBC)	-	-	-	-	-	
Iprodione	1.70E+03	2.25E+04	5.32E+04	-	1.58E+04	1.70E+03 nc
Iron	3.69E+04	3.93E+05	-	-	3.93E+05	3.69E+04 nc
Iron Sulfide	-	-	-	-	-	
Isobutyl Alcohol	1.58E+04	1.68E+05	-	-	1.68E+05	1.58E+04 sat
Isodrin	-	-	-	-	-	
Isophorone	8.51E+03	1.12E+05	2.66E+05	2.29E+10	7.90E+04	3.84E+03 ca**
Isopropalin	7.90E+02	8.42E+03	-	-	8.42E+03	7.90E+02 nc
Isopropanol	3.23E+04	1.12E+06	-	4.67E+04	4.48E+04	3.23E+04 nc
Isopropyl Methyl Phosphonic Acid	4.25E+03	5.62E+04	1.33E+05	-	3.95E+04	4.25E+03 nc
Isopropyltoluene, p-	-	-	-	-	-	
Isosafrole	-	-	-	-	-	
Isoxaben	2.13E+03	2.81E+04	6.65E+04	-	1.97E+04	2.13E+03 nc
JP-4	-	-	-	-	-	
JP-5	-	-	-	-	-	
JP-7	3.43E+09	-	-	3.43E+09	3.43E+09	3.43E+09 max
Propyzamide	3.19E+03	4.21E+04	9.97E+04	-	2.96E+04	3.19E+03 nc
Kerosene	-	-	-	-	-	
Lactofen	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	8.51E+01 nc
Lactonitrile	-	-	-	-	-	
Lanthanum	-	-	-	-	-	
Lewisite	2.63E-01	2.81E+00	-	-	2.81E+00	2.63E-01 nc
Linuron	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	8.51E+01 nc
Lithium	1.05E+02	1.12E+03	-	-	1.12E+03	1.05E+02 nc
Bensulfuron-methyl	8.51E+03	1.12E+05	2.66E+05	-	7.90E+04	8.51E+03 nc
Lutetium	-	-	-	-	-	

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Dimethylethyl Lead	107584-40-7	No	No	-		-		-	
Lead Alkyls	NA	No	No	-		-		-	
Lead Chromate	7758-97-6	Yes	No	5.00E-01	C	1.50E-01	C	2.00E-02	C
Lead Phosphate	7446-27-7	No	No	8.50E-03	C	1.20E-05	C	-	
Lead acetate	301-04-2	No	No	2.80E-01	C	8.00E-05	C	-	
Lead and Compounds	7439-92-1	No	No	-		-		-	
Lead subacetate	1335-32-6	No	No	8.50E-03	C	1.20E-05	C	-	
Methyltriethyl Lead	1762-28-3	No	Yes	-		-		-	
Tetrabutyl Lead	1920-90-7	No	Yes	-		-		-	
Tetraethyl Lead	78-00-2	No	Yes	-		-		1.00E-07	I
Tetramethyl Lead	75-74-1	No	Yes	-		-		-	
Tetrapropyl Lead	3440-75-3	No	Yes	-		-		-	
Magnesium	7439-95-4	No	No	-		-		-	
Magnesium Chlorate	10326-21-3	No	No	-		-		-	
Malathion	121-75-5	No	No	-		-		2.00E-02	I
Maleic Anhydride	108-31-6	No	No	-		-		1.00E-01	I
Maleic Hydrazide	123-33-1	No	No	-		-		5.00E-01	I
Malononitrile	109-77-3	No	No	-		-		1.00E-04	P
Mancozeb	8018-01-7	No	No	-		-		3.00E-02	H
Maneb	12427-38-2	No	No	-		-		5.00E-03	I
Manganese (Non-diet)	7439-96-5	No	No	-		-		2.40E-02	S
MCPA	94-74-6	No	No	-		-		5.00E-04	I
MCPB	94-81-5	No	No	-		-		1.00E-02	I
MCPP	93-65-2	No	No	-		-		1.00E-03	I
Mechlorethamine	51-75-2	No	No	-		-		-	
Mephosfolan	950-10-7	No	No	-		-		9.00E-05	H
Mepiquat Chloride	24307-26-4	No	No	-		-		3.00E-02	I
Merphos	150-50-5	No	Yes	-		-		3.00E-05	I
Merphos Oxide	78-48-8	No	No	-		-		3.00E-05	I

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Dimethylethyl Lead	-		1	0.1	1	-	-	1.36E+09
Lead Alkyls	-		1	0.1	1	-	-	1.36E+09
Lead Chromate	2.00E-04	C	0.025	-	1	-	-	1.36E+09
Lead Phosphate	-		1	-	1	-	-	1.36E+09
Lead acetate	-		1	0.1	1	-	-	1.36E+09
Lead and Compounds	-		1	-	1	-	-	1.36E+09
Lead subacetate	-		1	0.1	1	-	-	1.36E+09
Methyltriethyl Lead	-		1	-	1	1.63E+03	1.32E+01	1.36E+09
Tetrabutyl Lead	-		1	-	1	4.65E+03	-	1.36E+09
Tetraethyl Lead	-		1	-	1	1.91E+03	2.43E+00	1.36E+09
Tetramethyl Lead	-		1	-	1	1.31E+03	-	1.36E+09
Tetrapropyl Lead	-		1	-	1	2.65E+03	-	1.36E+09
Magnesium	-		1	-	1	-	-	1.36E+09
Magnesium Chlorate	-		1	-	1	-	-	1.36E+09
Malathion	-		1	0.1	1	-	-	1.36E+09
Maleic Anhydride	7.00E-04	C	1	0.1	1	-	-	1.36E+09
Maleic Hydrazide	-		1	0.1	1	-	-	1.36E+09
Malononitrile	-		1	0.1	1	-	-	1.36E+09
Mancozeb	-		1	0.1	1	-	-	1.36E+09
Maneb	-		1	0.1	1	-	-	1.36E+09
Manganese (Non-diet)	5.00E-05	I	0.04	-	1	-	-	1.36E+09
MCPA	-		1	0.1	1	-	-	1.36E+09
MCPB	-		1	0.1	1	-	-	1.36E+09
MCPP	-		1	0.1	1	-	-	1.36E+09
Mechlorethamine	-		1	0.1	1	-	-	1.36E+09
Mephosfolan	-		1	0.1	1	-	-	1.36E+09
Mepiquat Chloride	-		1	0.1	1	-	-	1.36E+09
Merphos	-		1	-	1	1.94E+06	-	1.36E+09
Merphos Oxide	-		1	0.1	1	-	-	1.36E+09

Site-specific

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Dimethylethyl Lead	-	-	-	-	-	-	-
Lead Alkyls	-	-	-	-	-	-	-
Lead Chromate	2.06E+00	-	7.42E+02	2.06E+00	1.05E+03	-	2.29E+06
Lead Phosphate	5.51E+02	-	2.57E+07	5.51E+02	-	-	-
Lead acetate	1.67E+01	5.94E+01	3.85E+06	1.30E+01	-	-	-
Lead and Compounds	-	-	-	-	-	-	-
Lead subacetate	5.51E+02	1.96E+03	2.57E+07	4.30E+02	-	-	-
Methyltriethyl Lead	-	-	-	-	-	-	-
Tetrabutyl Lead	-	-	-	-	-	-	-
Tetraethyl Lead	-	-	-	-	5.26E-03	-	-
Tetramethyl Lead	-	-	-	-	-	-	-
Tetrapropyl Lead	-	-	-	-	-	-	-
Magnesium	-	-	-	-	-	-	-
Magnesium Chlorate	-	-	-	-	-	-	-
Malathion	-	-	-	-	1.05E+03	4.44E+03	-
Maleic Anhydride	-	-	-	-	5.26E+03	2.22E+04	8.01E+06
Maleic Hydrazide	-	-	-	-	2.63E+04	1.11E+05	-
Malononitrile	-	-	-	-	5.26E+00	2.22E+01	-
Mancozeb	-	-	-	-	1.58E+03	6.66E+03	-
Maneb	-	-	-	-	2.63E+02	1.11E+03	-
Manganese (Non-diet)	-	-	-	-	1.26E+03	-	5.72E+05
MCPA	-	-	-	-	2.63E+01	1.11E+02	-
MCPB	-	-	-	-	5.26E+02	2.22E+03	-
MCPP	-	-	-	-	5.26E+01	2.22E+02	-
Mechlorethamine	-	-	-	-	-	-	-
Mephosfolan	-	-	-	-	4.74E+00	2.00E+01	-
Mepiquat Chloride	-	-	-	-	1.58E+03	6.66E+03	-
Merphos	-	-	-	-	1.58E+00	-	-
Merphos Oxide	-	-	-	-	1.58E+00	6.66E+00	-

Site-specific

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Dimethylethyl Lead	-	-	-	-	-	
Lead Alkyls	-	-	-	-	-	
Lead Chromate	1.05E+03	1.12E+04	-	2.29E+06	1.12E+04	2.06E+00 ca
Lead Phosphate	-	-	-	-	-	5.51E+02 ca
Lead acetate	-	-	-	-	-	1.30E+01 ca
Lead and Compounds	-	-	-	-	-	4.00E+02 nc
Lead subacetate	-	-	-	-	-	4.30E+02 ca
Methyltriethyl Lead	-	-	-	-	-	
Tetrabutyl Lead	-	-	-	-	-	
Tetraethyl Lead	5.26E-03	5.62E-02	-	-	5.62E-02	5.26E-03 nc
Tetramethyl Lead	-	-	-	-	-	
Tetrapropyl Lead	-	-	-	-	-	
Magnesium	-	-	-	-	-	
Magnesium Chlorate	-	-	-	-	-	
Malathion	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Maleic Anhydride	4.25E+03	5.62E+04	1.33E+05	8.01E+06	3.93E+04	4.25E+03 nc
Maleic Hydrazide	2.13E+04	2.81E+05	6.65E+05	-	1.97E+05	2.13E+04 nc
Malononitrile	4.25E+00	5.62E+01	1.33E+02	-	3.95E+01	4.25E+00 nc
Mancozeb	1.28E+03	1.68E+04	3.99E+04	-	1.18E+04	1.28E+03 nc
Maneb	2.13E+02	2.81E+03	6.65E+03	-	1.97E+03	2.13E+02 nc
Manganese (Non-diet)	1.26E+03	1.35E+04	-	5.72E+05	1.32E+04	1.26E+03 nc
MCPA	2.13E+01	2.81E+02	6.65E+02	-	1.97E+02	2.13E+01 nc
MCPB	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	4.25E+02 nc
MCPP	4.25E+01	5.62E+02	1.33E+03	-	3.95E+02	4.25E+01 nc
Mechlorethamine	-	-	-	-	-	
Mephosfolan	3.83E+00	5.05E+01	1.20E+02	-	3.55E+01	3.83E+00 nc
Mepiquat Chloride	1.28E+03	1.68E+04	3.99E+04	-	1.18E+04	1.28E+03 nc
Merphos	1.58E+00	1.68E+01	-	-	1.68E+01	1.58E+00 nc
Merphos Oxide	1.28E+00	1.68E+01	3.99E+01	-	1.18E+01	1.28E+00 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Metalaxyl	57837-19-1	No	No	-		-		6.00E-02	I
Methacrylonitrile	126-98-7	No	Yes	-		-		1.00E-04	I
Methamidophos	10265-92-6	No	No	-		-		5.00E-05	I
Methanol	67-56-1	No	Yes	-		-		2.00E+00	I
Methapyrilene	91-80-5	No	No	-		-		-	
Methidathion	950-37-8	No	No	-		-		1.00E-03	I
Methomyl	16752-77-5	No	No	-		-		2.50E-02	I
Methoxy-5-nitroaniline, 2-	99-59-2	No	No	4.90E-02	C	1.40E-05	C	-	
Methoxychlor	72-43-5	No	No	-		-		5.00E-03	I
Methoxyethanol Acetate, 2-	110-49-6	No	Yes	-		-		8.00E-03	P
Methoxyethanol, 2-	109-86-4	No	Yes	-		-		5.00E-03	P
Methyl methanesulfonate	66-27-3	No	No	9.90E-02	C	2.80E-05	C	-	
Methyl Acetate	79-20-9	No	Yes	-		-		1.00E+00	S
Methyl Acrylate	96-33-3	No	Yes	-		-		-	
Methyl dicyclohexylamine, n-	7560-83-0	No	Yes	-		-		-	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	No	Yes	-		-		6.00E-01	I
Methyl Hydrazine	60-34-4	No	Yes	-		1.00E-03	X	1.00E-03	P
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	No	Yes	-		-		-	
Methyl Isocyanate	624-83-9	No	Yes	-		-		-	
Methyl Mercaptan	74-93-1	No	Yes	-		-		-	
Methyl Methacrylate	80-62-6	No	Yes	-		-		1.40E+00	I
Methyl Parathion	298-00-0	No	No	-		-		2.50E-04	I
Methyl Phosphonic Acid	993-13-5	No	No	-		-		6.00E-02	S
Methyl Styrene (Mixed Isomers)	25013-15-4	No	Yes	-		-		6.00E-03	H
Methyl tert-Butyl Ether (MTBE)	1634-04-4	No	Yes	1.80E-03	C	2.60E-07	C	-	
Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2	No	No	-		-		3.00E-04	S
Methyl-2-Pentanol, 4-	108-11-2	No	Yes	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Metalaxyl	-		1	0.1	1	-	-	1.36E+09
Methacrylonitrile	3.00E-02	P	1	-	1	6.79E+03	4.58E+03	1.36E+09
Methamidophos	-		1	0.1	1	-	-	1.36E+09
Methanol	2.00E+01	I	1	-	1	2.90E+04	1.06E+05	1.36E+09
Methapyrilene	-		1	0.1	1	-	-	1.36E+09
Methidathion	-		1	0.1	1	-	-	1.36E+09
Methomyl	-		1	0.1	1	-	-	1.36E+09
Methoxy-5-nitroaniline, 2-	-		1	0.1	1	-	-	1.36E+09
Methoxychlor	-		1	0.1	1	-	-	1.36E+09
Methoxyethanol Acetate, 2-	1.00E-03	P	1	-	1	1.24E+05	1.15E+05	1.36E+09
Methoxyethanol, 2-	2.00E-02	I	1	-	1	1.01E+05	1.06E+05	1.36E+09
Methyl methanesulfonate	-		1	0.1	1	-	-	1.36E+09
Methyl Acetate	-		1	-	1	8.12E+03	2.90E+04	1.36E+09
Methyl Acrylate	2.00E-02	P	1	-	1	6.97E+03	6.75E+03	1.36E+09
Methyl dicyclohexylamine, n-	-		1	-	1	4.75E+04	-	1.36E+09
Methyl Ethyl Ketone (2-Butanone)	5.00E+00	I	1	-	1	1.22E+04	2.84E+04	1.36E+09
Methyl Hydrazine	2.00E-05	S	1	-	1	5.04E+04	1.80E+05	1.36E+09
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	3.00E+00	I	1	-	1	1.06E+04	3.36E+03	1.36E+09
Methyl Isocyanate	1.00E-03	C	1	-	1	4.42E+03	1.01E+04	1.36E+09
Methyl Mercaptan	-		1	-	1	1.78E+03	3.13E+03	1.36E+09
Methyl Methacrylate	7.00E-01	I	1	-	1	6.33E+03	2.36E+03	1.36E+09
Methyl Parathion	-		1	0.1	1	-	-	1.36E+09
Methyl Phosphonic Acid	-		1	0.1	1	-	-	1.36E+09
Methyl Styrene (Mixed Isomers)	4.00E-02	H	1	-	1	2.43E+04	3.93E+02	1.36E+09
Methyl tert-Butyl Ether (MTBE)	3.00E+00	I	1	-	1	4.90E+03	8.87E+03	1.36E+09
Methyl-1,4-benzenediamine dihydrochloride, 2-	-		1	0.1	1	-	-	1.36E+09
Methyl-2-Pentanol, 4-	-		1	-	1	1.72E+04	2.45E+03	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Metalaxyl	-	-	-	-	3.16E+03	1.33E+04	-
Methacrylonitrile	-	-	-	-	5.26E+00	-	1.72E+03
Methamidophos	-	-	-	-	2.63E+00	1.11E+01	-
Methanol	-	-	-	-	1.05E+05	-	4.89E+06
Methapyrilene	-	-	-	-	-	-	-
Methidathion	-	-	-	-	5.26E+01	2.22E+02	-
Methomyl	-	-	-	-	1.32E+03	5.55E+03	-
Methoxy-5-nitroaniline, 2-	9.55E+01	3.39E+02	2.20E+07	7.45E+01	-	-	-
Methoxychlor	-	-	-	-	2.63E+02	1.11E+03	-
Methoxyethanol Acetate, 2-	-	-	-	-	4.21E+02	-	1.04E+03
Methoxyethanol, 2-	-	-	-	-	2.63E+02	-	1.70E+04
Methyl methanesulfonate	4.73E+01	1.68E+02	1.10E+07	3.69E+01	-	-	-
Methyl Acetate	-	-	-	-	5.26E+04	-	-
Methyl Acrylate	-	-	-	-	-	-	1.17E+03
Methyl dicyclohexylamine, n-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (2-Butanone)	-	-	-	-	3.16E+04	-	5.14E+05
Methyl Hydrazine	-	-	1.14E+01	1.14E+01	5.26E+01	-	8.49E+00
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	-	-	-	-	-	-	2.67E+05
Methyl Isocyanate	-	-	-	-	-	-	3.72E+01
Methyl Mercaptan	-	-	-	-	-	-	-
Methyl Methacrylate	-	-	-	-	7.37E+04	-	3.73E+04
Methyl Parathion	-	-	-	-	1.32E+01	5.55E+01	-
Methyl Phosphonic Acid	-	-	-	-	3.16E+03	1.33E+04	-
Methyl Styrene (Mixed Isomers)	-	-	-	-	3.16E+02	-	8.19E+03
Methyl tert-Butyl Ether (MTBE)	2.60E+03	-	4.27E+03	1.62E+03	-	-	1.24E+05
Methyl-1,4-benzenediamine dihydrochloride, 2-	-	-	-	-	1.58E+01	6.66E+01	-
Methyl-2-Pentanol, 4-	-	-	-	-	-	-	-

Site-specific

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Metalaxyl	2.55E+03	3.37E+04	7.98E+04	-	2.37E+04	2.55E+03 nc
Methacrylonitrile	5.25E+00	5.62E+01	-	1.72E+03	5.44E+01	5.25E+00 nc
Methamidophos	2.13E+00	2.81E+01	6.65E+01	-	1.97E+01	2.13E+00 nc
Methanol	1.03E+05	1.12E+06	-	4.89E+06	9.13E+05	1.03E+05 max
Methapyrilene	-	-	-	-	-	
Methidathion	4.25E+01	5.62E+02	1.33E+03	-	3.95E+02	4.25E+01 nc
Methomyl	1.06E+03	1.40E+04	3.32E+04	-	9.87E+03	1.06E+03 nc
Methoxy-5-nitroaniline, 2-	-	-	-	-	-	7.45E+01 ca
Methoxychlor	2.13E+02	2.81E+03	6.65E+03	-	1.97E+03	2.13E+02 nc
Methoxyethanol Acetate, 2-	3.00E+02	4.49E+03	-	1.04E+03	8.46E+02	3.00E+02 nc
Methoxyethanol, 2-	2.59E+02	2.81E+03	-	1.70E+04	2.41E+03	2.59E+02 nc
Methyl methanesulfonate	-	-	-	-	-	3.69E+01 ca
Methyl Acetate	5.26E+04	5.62E+05	-	-	5.62E+05	5.26E+04 sat
Methyl Acrylate	1.17E+03	-	-	1.17E+03	1.17E+03	1.17E+03 nc
Methyl dicyclohexylamine, n-	-	-	-	-	-	
Methyl Ethyl Ketone (2-Butanone)	2.98E+04	3.37E+05	-	5.14E+05	2.03E+05	2.98E+04 sat
Methyl Hydrazine	7.31E+00	5.62E+02	-	8.49E+00	8.37E+00	7.31E+00 nc
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	2.67E+05	-	-	2.67E+05	2.67E+05	2.67E+05 sat
Methyl Isocyanate	3.72E+01	-	-	3.72E+01	3.72E+01	3.72E+01 nc
Methyl Mercaptan	-	-	-	-	-	
Methyl Methacrylate	2.48E+04	7.86E+05	-	3.73E+04	3.56E+04	2.48E+04 sat
Methyl Parathion	1.06E+01	1.40E+02	3.32E+02	-	9.87E+01	1.06E+01 nc
Methyl Phosphonic Acid	2.55E+03	3.37E+04	7.98E+04	-	2.37E+04	2.55E+03 nc
Methyl Styrene (Mixed Isomers)	3.04E+02	3.37E+03	-	8.19E+03	2.39E+03	3.04E+02 nc
Methyl tert-Butyl Ether (MTBE)	1.24E+05	-	-	1.24E+05	1.24E+05	1.62E+03 ca*
Methyl-1,4-benzenediamine dihydrochloride, 2-	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	1.28E+01 nc
Methyl-2-Pentanol, 4-	-	-	-	-	-	

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Methyl-5-Nitroaniline, 2-	99-55-8	No	No	9.00E-03	P	-		2.00E-02	S
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	No	No	8.30E+00	C	2.40E-03	C	-	
Methylaniline Hydrochloride, 2-	636-21-5	No	No	1.30E-01	C	3.70E-05	C	-	
Methylarsonic acid	124-58-3	No	No	-		-		1.00E-02	A
Methylaziridine, 2-	75-55-8	No	Yes	-		-		-	
Methylbenzene,1-4-diamine monohydrochloride, 2-	74612-12-7	No	No	-		-		2.00E-04	S
Methylbenzene-1,4-diamine sulfate, 2-	615-50-9	No	No	1.00E-01	X	-		3.00E-04	S
Methylcholanthrene, 3-	56-49-5	Yes	No	2.20E+01	C	6.30E-03	C	-	
Methylcyclohexane	108-87-2	No	Yes	-		-		-	
Methylcyclohexylamine, n-	100-60-7	No	Yes	-		-		-	
Methylcyclopentane	96-37-7	No	Yes	-		-		-	
Methylene Chloride	75-09-2	Yes	Yes	2.00E-03	I	1.00E-08	I	6.00E-03	I
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	Yes	No	1.00E-01	P	4.30E-04	C	2.00E-03	P
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	No	No	4.60E-02	I	1.30E-05	C	-	
Methylenebisbenzenamine, 4,4'-	101-77-9	No	No	1.60E+00	C	4.60E-04	C	-	
Methylenediphenyl Diisocyanate	101-68-8	No	No	-		-		-	
Methylisothiocyanate	556-61-6	No	Yes	-		-		-	
Methylnaphthalene	1321-94-4	No	Yes	-		-		-	
Methylstyrene, Alpha-	98-83-9	No	Yes	-		-		7.00E-02	H
Metolachlor	51218-45-2	No	No	-		-		1.50E-01	I
Metribuzin	21087-64-9	No	No	-		-		2.50E-02	I
Mineral oils	8012-95-1	No	Yes	-		-		3.00E+00	P
Mirex	2385-85-5	No	Yes	1.80E+01	C	5.10E-03	C	2.00E-04	I
Molinate	2212-67-1	No	No	-		-		2.00E-03	I
Molybdenum	7439-98-7	No	No	-		-		5.00E-03	I
Monobutyltin Compounds	NA	No	No	-		-		-	
Monochloramine	10599-90-3	No	No	-		-		1.00E-01	I

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Methyl-5-Nitroaniline, 2-	-		1	0.1	1	-	-	1.36E+09
Methyl-N-nitro-N-nitrosoguanidine, N-	-		1	0.1	1	-	-	1.36E+09
Methylaniline Hydrochloride, 2-	-		1	0.1	1	-	-	1.36E+09
Methylarsonic acid	-		1	0.1	1	-	-	1.36E+09
Methylaziridine, 2-	-		1	-	1	3.20E+04	1.87E+05	1.36E+09
Methylbenzene,1-4-diamine monohydrochloride, 2-	-		1	0.1	1	-	-	1.36E+09
Methylbenzene-1,4-diamine sulfate, 2-	-		1	0.1	1	-	-	1.36E+09
Methylcholanthrene, 3-	-		1	0.1	1	-	-	1.36E+09
Methylcyclohexane	-		1	-	1	9.90E+02	6.76E+01	1.36E+09
Methylcyclohexylamine, n-	-		1	-	1	3.18E+04	5.70E+03	1.36E+09
Methylcyclopentane	-		1	-	1	8.86E+02	1.55E+02	1.36E+09
Methylene Chloride	6.00E-01	I	1	-	1	2.19E+03	3.32E+03	1.36E+09
Methylene-bis(2-chloroaniline), 4,4'-	-		1	0.1	1	-	-	1.36E+09
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	-		1	0.1	1	-	-	1.36E+09
Methylenebisbenzenamine, 4,4'-	2.00E-02	C	1	0.1	1	-	-	1.36E+09
Methylenediphenyl Diisocyanate	6.00E-04	I	1	0.1	1	-	-	1.36E+09
Methylisothiocyanate	-		1	-	1	1.47E+04	-	1.36E+09
Methylnaphthalene	-		1	-	1	5.85E+04	-	1.36E+09
Methylstyrene, Alpha-	-		1	-	1	1.28E+04	5.00E+02	1.36E+09
Metolachlor	-		1	0.1	1	-	-	1.36E+09
Metribuzin	-		1	0.1	1	-	-	1.36E+09
Mineral oils	-		1	-	1	1.38E+03	3.42E-01	1.36E+09
Mirex	-		1	-	1	8.58E+05	-	1.36E+09
Molinate	-		1	0.1	1	-	-	1.36E+09
Molybdenum	-		1	-	1	-	-	1.36E+09
Monobutyltin Compounds	-		1	0.1	1	-	-	1.36E+09
Monochloramine	-		1	-	1	-	-	1.36E+09

Site-specific

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Methyl-5-Nitroaniline, 2-	5.20E+02	1.85E+03	-	4.06E+02	1.05E+03	4.44E+03	-
Methyl-N-nitro-N-nitrosoguanidine, N-	5.64E-01	2.00E+00	1.28E+05	4.40E-01	-	-	-
Methylaniline Hydrochloride, 2-	3.60E+01	1.28E+02	8.33E+06	2.81E+01	-	-	-
Methylarsonic acid	-	-	-	-	5.26E+02	2.22E+03	-
Methylaziridine, 2-	-	-	-	-	-	-	-
Methylbenzene,1-4-diamine monohydrochloride, 2-	-	-	-	-	1.05E+01	4.44E+01	-
Methylbenzene-1,4-diamine sulfate, 2-	4.68E+01	1.66E+02	-	3.65E+01	1.58E+01	6.66E+01	-
Methylcholanthrene, 3-	4.69E-02	1.83E-01	1.77E+04	3.73E-02	-	-	-
Methylcyclohexane	-	-	-	-	-	-	-
Methylcyclohexylamine, n-	-	-	-	-	-	-	-
Methylcyclopentane	-	-	-	-	-	-	-
Methylene Chloride	5.15E+02	-	1.79E+04	5.01E+02	3.16E+02	-	1.11E+04
Methylene-bis(2-chloroaniline), 4,4'-	1.03E+01	4.02E+01	2.59E+05	8.20E+00	1.05E+02	4.44E+02	-
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	1.02E+02	3.62E+02	2.37E+07	7.94E+01	-	-	-
Methylenebisbenzenamine, 4,4'-	2.92E+00	1.04E+01	6.70E+05	2.28E+00	-	-	2.29E+08
Methylenediphenyl Diisocyanate	-	-	-	-	-	-	6.87E+06
Methylisothiocyanate	-	-	-	-	-	-	-
Methylnaphthalene	-	-	-	-	-	-	-
Methylstyrene, Alpha-	-	-	-	-	3.69E+03	-	-
Metolachlor	-	-	-	-	7.90E+03	3.33E+04	-
Metribuzin	-	-	-	-	1.32E+03	5.55E+03	-
Mineral oils	-	-	-	-	1.58E+05	-	-
Mirex	2.60E-01	-	3.81E+01	2.58E-01	1.05E+01	-	-
Molinate	-	-	-	-	1.05E+02	4.44E+02	-
Molybdenum	-	-	-	-	2.63E+02	-	-
Monobutyltin Compounds	-	-	-	-	-	-	-
Monochloramine	-	-	-	-	5.26E+03	-	-

Site-specific

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Methyl-5-Nitroaniline, 2-	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	4.06E+02 ca**
Methyl-N-nitro-N-nitrosoguanidine, N-	-	-	-	-	-	4.40E-01 ca
Methylaniline Hydrochloride, 2-	-	-	-	-	-	2.81E+01 ca
Methylarsonic acid	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	4.25E+02 nc
Methylaziridine, 2-	-	-	-	-	-	
Methylbenzene,1-4-diamine monohydrochloride, 2-	8.51E+00	1.12E+02	2.66E+02	-	7.90E+01	8.51E+00 nc
Methylbenzene-1,4-diamine sulfate, 2-	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	1.28E+01 nc
Methylcholanthrene, 3-	-	-	-	-	-	3.73E-02 ca
Methylcyclohexane	-	-	-	-	-	
Methylcyclohexylamine, n-	-	-	-	-	-	
Methylcyclopentane	-	-	-	-	-	
Methylene Chloride	3.07E+02	3.37E+03	-	1.11E+04	2.58E+03	3.07E+02 nc
Methylene-bis(2-chloroaniline), 4,4'-	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	8.20E+00 ca*
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	-	-	-	-	-	7.94E+01 ca
Methylenebisbenzenamine, 4,4'-	2.29E+08	-	-	2.29E+08	2.29E+08	2.28E+00 ca
Methylenediphenyl Diisocyanate	6.87E+06	-	-	6.87E+06	6.87E+06	6.87E+06 max
Methylisothiocyanate	-	-	-	-	-	
Methylnaphthalene	-	-	-	-	-	
Methylstyrene, Alpha-	3.69E+03	3.93E+04	-	-	3.93E+04	3.69E+03 sat
Metolachlor	6.38E+03	8.42E+04	1.99E+05	-	5.92E+04	6.38E+03 nc
Metribuzin	1.06E+03	1.40E+04	3.32E+04	-	9.87E+03	1.06E+03 nc
Mineral oils	1.58E+05	1.68E+06	-	-	1.68E+06	1.58E+05 sat
Mirex	1.05E+01	1.12E+02	-	-	1.12E+02	2.58E-01 ca*
Molinate	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	8.51E+01 nc
Molybdenum	2.63E+02	2.81E+03	-	-	2.81E+03	2.63E+02 nc
Monobutyltin Compounds	-	-	-	-	-	
Monochloramine	5.26E+03	5.62E+04	-	-	5.62E+04	5.26E+03 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Monochlorobutanes	25154-42-1	No	No	-		-		-	
Monochlorophenols (total)	NA	No	No	-		-		-	
Monocyclic aromatic hydrocarbons (total)	NA	No	No	-		-		-	
Monomethylaniline	100-61-8	No	No	-		-		2.00E-03	P
Dimethylmercury	593-74-8	No	Yes	-		-		-	
Mercuric Chloride	7487-94-7	No	No	-		-		3.00E-04	I
Mercury (elemental)	7439-97-6	No	Yes	-		-		-	
Methyl Mercury	22967-92-6	No	No	-		-		1.00E-04	I
Phenylmercuric Acetate	62-38-4	No	No	-		-		8.00E-05	I
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	No	No	-		-		3.00E-04	S
N-Methyl dithiocarbamate	137-42-8	No	No	-		-		-	
Naled	300-76-5	No	Yes	-		-		2.00E-03	I
Naphtha, High Flash Aromatic (HFAN)	64742-95-6	No	Yes	-		-		3.00E-02	S
Naphthol, 2-	135-19-3	No	No	-		-		-	
Naphthoquinone, 1,4-	130-15-4	No	No	-		-		-	
Naphthylamine, 1-	134-32-7	No	No	-		-		-	
Naphthylamine, 2-	91-59-8	No	No	1.80E+00	C	0.00E+00	C	-	
Napropamide	15299-99-7	No	No	-		-		1.00E-01	I
Neodymium Chloride (Stable, Nonradioactive)	10024-93-8	No	No	-		-		-	
Niagara Blue 4B	2429-74-5	No	No	-		-		-	
Nickel Carbonyl	13463-39-3	No	Yes	-		2.60E-04	C	1.10E-02	C
Nickel Refinery Dust	NA	No	No	-		2.40E-04	I	1.10E-02	C
Nickel Soluble Salts	7440-02-0	No	No	-		2.60E-04	C	2.00E-02	I
Nickel Subsulfide	12035-72-2	No	No	1.70E+00	C	4.80E-04	I	1.10E-02	C
Nickel Acetate	373-02-4	No	No	-		2.60E-04	C	1.10E-02	C
Nickel Carbonate	3333-67-3	No	No	-		2.60E-04	C	1.10E-02	C
Nickel Hydroxide	12054-48-7	No	No	-		2.60E-04	C	1.10E-02	C
Nickel Oxide	1313-99-1	No	No	-		2.60E-04	C	1.10E-02	C
Nickelocene	1271-28-9	No	No	-		2.60E-04	C	1.10E-02	C

Site-specific

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Monochlorobutanes	-		1	0.1	1	-	-	1.36E+09
Monochlorophenols (total)	-		1	0.1	1	-	-	1.36E+09
Monocyclic aromatic hydrocarbons (total)	-		1	0.1	1	-	-	1.36E+09
Monomethylaniline	-		1	0.1	1	-	-	1.36E+09
Dimethylmercury	-		1	-	1	4.26E+03	2.19E+03	1.36E+09
Mercuric Chloride	3.00E-04	S	0.07	-	1	-	-	1.36E+09
Mercury (elemental)	3.00E-04	I	1	-	1	3.47E+04	3.13E+00	1.36E+09
Methyl Mercury	-		1	-	1	-	-	1.36E+09
Phenylmercuric Acetate	-		1	0.1	1	-	-	1.36E+09
N,N'-Diphenyl-1,4-benzenediamine	-		1	0.1	1	-	-	1.36E+09
N-Methyl dithiocarbamate	-		1	0.1	1	-	-	1.36E+09
Naled	-		1	-	1	5.70E+04	-	1.36E+09
Naphtha, High Flash Aromatic (HFAN)	1.00E-01	P	1	-	1	-	-	1.36E+09
Naphthol, 2-	-		1	0.1	1	-	-	1.36E+09
Naphthoquinone, 1,4-	-		1	0.1	1	-	-	1.36E+09
Naphthylamine, 1-	-		1	0.1	1	-	-	1.36E+09
Naphthylamine, 2-	-		1	0.1	1	-	-	1.36E+09
Napropamide	-		1	0.1	1	-	-	1.36E+09
Neodymium Chloride (Stable, Nonradioactive)	-		1	-	1	-	-	1.36E+09
Niagara Blue 4B	-		1	0.1	1	-	-	1.36E+09
Nickel Carbonyl	1.40E-05	C	1	-	1	-	-	1.36E+09
Nickel Refinery Dust	1.40E-05	C	0.04	-	1	-	-	1.36E+09
Nickel Soluble Salts	9.00E-05	A	0.04	-	1	-	-	1.36E+09
Nickel Subsulfide	1.40E-05	C	0.04	-	1	-	-	1.36E+09
Nickel Acetate	1.40E-05	C	1	0.1	1	-	-	1.36E+09
Nickel Carbonate	1.40E-05	C	1	0.1	1	-	-	1.36E+09
Nickel Hydroxide	1.40E-05	C	0.04	-	1	-	-	1.36E+09
Nickel Oxide	2.00E-05	C	0.04	-	1	-	-	1.36E+09
Nickelocene	1.40E-05	C	1	0.1	1	-	-	1.36E+09

Site-specific

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Monochlorobutanes	-	-	-	-	-	-	-
Monochlorophenols (total)	-	-	-	-	-	-	-
Monocyclic aromatic hydrocarbons (total)	-	-	-	-	-	-	-
Monomethylaniline	-	-	-	-	1.05E+02	4.44E+02	-
Dimethylmercury	-	-	-	-	-	-	-
Mercuric Chloride	-	-	-	-	1.58E+01	-	3.43E+06
Mercury (elemental)	-	-	-	-	-	-	8.77E+01
Methyl Mercury	-	-	-	-	5.26E+00	-	-
Phenylmercuric Acetate	-	-	-	-	4.21E+00	1.77E+01	-
N,N'-Diphenyl-1,4-benzenediamine	-	-	-	-	1.58E+01	6.66E+01	-
N-Methyl dithiocarbamate	-	-	-	-	-	-	-
Naled	-	-	-	-	1.05E+02	-	-
Naphtha, High Flash Aromatic (HFAN)	-	-	-	-	1.58E+03	-	1.14E+09
Naphthol, 2-	-	-	-	-	-	-	-
Naphthoquinone, 1,4-	-	-	-	-	-	-	-
Naphthylamine, 1-	-	-	-	-	-	-	-
Naphthylamine, 2-	2.60E+00	9.24E+00	-	2.03E+00	-	-	-
Napropamide	-	-	-	-	5.26E+03	2.22E+04	-
Neodymium Chloride (Stable, Nonradioactive)	-	-	-	-	-	-	-
Niagara Blue 4B	-	-	-	-	-	-	-
Nickel Carbonyl	-	-	1.19E+06	1.19E+06	5.79E+02	-	1.60E+05
Nickel Refinery Dust	-	-	1.28E+06	1.28E+06	5.79E+02	-	1.60E+05
Nickel Soluble Salts	-	-	1.19E+06	1.19E+06	1.05E+03	-	1.03E+06
Nickel Subsulfide	2.75E+00	-	6.42E+05	2.75E+00	5.79E+02	-	1.60E+05
Nickel Acetate	-	-	1.19E+06	1.19E+06	5.79E+02	2.44E+03	1.60E+05
Nickel Carbonate	-	-	1.19E+06	1.19E+06	5.79E+02	2.44E+03	1.60E+05
Nickel Hydroxide	-	-	1.19E+06	1.19E+06	5.79E+02	-	1.60E+05
Nickel Oxide	-	-	1.19E+06	1.19E+06	5.79E+02	-	2.29E+05
Nickelocene	-	-	1.19E+06	1.19E+06	5.79E+02	2.44E+03	1.60E+05

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Monochlorobutanes	-	-	-	-	-	
Monochlorophenols (total)	-	-	-	-	-	
Monocyclic aromatic hydrocarbons (total)	-	-	-	-	-	
Monomethylaniline	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	8.51E+01 nc
Dimethylmercury	-	-	-	-	-	
Mercuric Chloride	1.58E+01	1.68E+02	-	3.43E+06	1.68E+02	1.58E+01 nc
Mercury (elemental)	8.77E+01	-	-	8.77E+01	8.77E+01	8.77E+01 sat
Methyl Mercury	5.26E+00	5.62E+01	-	-	5.62E+01	5.26E+00 nc
Phenylmercuric Acetate	3.40E+00	4.49E+01	1.06E+02	-	3.16E+01	3.40E+00 nc
N,N'-Diphenyl-1,4-benzenediamine	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	1.28E+01 nc
N-Methyl dithiocarbamate	-	-	-	-	-	
Naled	1.05E+02	1.12E+03	-	-	1.12E+03	1.05E+02 nc
Naphtha, High Flash Aromatic (HFAN)	1.58E+03	1.68E+04	-	1.14E+09	1.68E+04	1.58E+03 nc
Naphthol, 2-	-	-	-	-	-	
Naphthoquinone, 1,4-	-	-	-	-	-	
Naphthylamine, 1-	-	-	-	-	-	
Naphthylamine, 2-	-	-	-	-	-	2.03E+00 ca
Napropamide	4.25E+03	5.62E+04	1.33E+05	-	3.95E+04	4.25E+03 nc
Neodymium Chloride (Stable, Nonradioactive)	-	-	-	-	-	
Niagara Blue 4B	-	-	-	-	-	
Nickel Carbonyl	5.77E+02	6.18E+03	-	1.60E+05	5.95E+03	5.77E+02 nc
Nickel Refinery Dust	5.77E+02	6.18E+03	-	1.60E+05	5.95E+03	5.77E+02 nc
Nickel Soluble Salts	1.05E+03	1.12E+04	-	1.03E+06	1.11E+04	1.05E+03 nc
Nickel Subsulfide	5.77E+02	6.18E+03	-	1.60E+05	5.95E+03	2.75E+00 ca
Nickel Acetate	4.67E+02	6.18E+03	1.46E+04	1.60E+05	4.23E+03	4.67E+02 nc
Nickel Carbonate	4.67E+02	6.18E+03	1.46E+04	1.60E+05	4.23E+03	4.67E+02 nc
Nickel Hydroxide	5.77E+02	6.18E+03	-	1.60E+05	5.95E+03	5.77E+02 nc
Nickel Oxide	5.78E+02	6.18E+03	-	2.29E+05	6.01E+03	5.78E+02 nc
Nickelocene	4.67E+02	6.18E+03	1.46E+04	1.60E+05	4.23E+03	4.67E+02 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Nicotinonitrile	100-54-9	No	No	-		-		-	
Niobium	7440-03-1	No	No	-		-		-	
Nitrapyrin	1929-82-4	No	Yes	-		-		-	
Nitrate	14797-55-8	No	No	-		-		1.60E+00	I
Nitrate + Nitrite (as N)	NA	No	No	-		-		-	
Nitric Acid	7697-37-2	No	Yes	-		-		-	
Nitric Oxide	10102-43-9	No	Yes	-		-		-	
Nitrite	14797-65-0	No	No	-		-		1.00E-01	I
Nitroaniline, 2-	88-74-4	No	No	-		-		1.00E-02	S
Nitroaniline, 3-	99-09-2	No	No	-		-		-	
Nitroaniline, 4-	100-01-6	No	No	2.00E-02	P	-		4.00E-03	P
Nitrobenzene	98-95-3	No	Yes	-		4.00E-05	I	2.00E-03	I
Nitrobiphenyl, 4-	92-93-3	No	No	-		-		-	
Nitrocellulose	9004-70-0	No	No	-		-		3.00E+03	P
Nitrodiphenylamine, 2-	119-75-5	No	No	-		-		-	
Nitrofurantoin	67-20-9	No	No	-		-		7.00E-02	H
Nitrofurazone	59-87-0	No	No	1.30E+00	C	3.70E-04	C	-	
Nitrogen Dioxide	10102-44-0	No	Yes	-		-		-	
Nitroglycerin	55-63-0	No	No	1.70E-02	P	-		1.00E-04	P
Nitroguanidine	556-88-7	No	No	-		-		1.00E-01	I
Nitromethane	75-52-5	No	Yes	-		8.80E-06	P	-	
Nitrophenol, 2-	88-75-5	No	Yes	-		-		-	
Nitrophenol, 2-amino-4-	99-57-0	No	No	-		-		-	
Nitrophenol, 3-	554-84-7	No	No	-		-		-	
Nitrophenol, 4-	100-02-7	No	No	-		-		-	
Nitrophenol, 4-amino-2-	119-34-6	No	No	-		-		-	
Nitropropane, 2-	79-46-9	No	Yes	-		2.70E-03	H	-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Nicotinonitrile	-		1	0.1	1	-	-	1.36E+09
Niobium	-		1	-	1	-	-	1.36E+09
Nitrapyrin	-		1	-	1	2.21E+05	-	1.36E+09
Nitrate	-		1	-	1	-	-	1.36E+09
Nitrate + Nitrite (as N)	-		1	-	1	-	-	1.36E+09
Nitric Acid	-		1	-	1	-	-	1.36E+09
Nitric Oxide	-		1	-	1	-	-	1.36E+09
Nitrite	-		1	-	1	-	-	1.36E+09
Nitroaniline, 2-	5.00E-05	S	1	0.1	1	-	-	1.36E+09
Nitroaniline, 3-	-		1	0.1	1	-	-	1.36E+09
Nitroaniline, 4-	6.00E-03	P	1	0.1	1	-	-	1.36E+09
Nitrobenzene	9.00E-03	I	1	-	1	7.32E+04	3.05E+03	1.36E+09
Nitrobiphenyl, 4-	-		1	0.1	1	-	-	1.36E+09
Nitrocellulose	-		1	0.1	1	-	-	1.36E+09
Nitrodiphenylamine, 2-	-		1	0.1	1	-	-	1.36E+09
Nitrofurantoin	-		1	0.1	1	-	-	1.36E+09
Nitrofurazone	-		1	0.1	1	-	-	1.36E+09
Nitrogen Dioxide	-		1	-	1	-	-	1.36E+09
Nitroglycerin	-		1	0.1	1	-	-	1.36E+09
Nitroguanidine	-		1	0.1	1	-	-	1.36E+09
Nitromethane	5.00E-03	P	1	-	1	1.69E+04	1.80E+04	1.36E+09
Nitrophenol, 2-	-		1	-	1	1.20E+05	-	1.36E+09
Nitrophenol, 2-amino-4-	-		1	0.1	1	-	-	1.36E+09
Nitrophenol, 3-	-		1	0.1	1	-	-	1.36E+09
Nitrophenol, 4-	-		1	0.1	1	-	-	1.36E+09
Nitrophenol, 4-amino-2-	-		1	0.1	1	-	-	1.36E+09
Nitropropane, 2-	2.00E-02	I	1	-	1	1.31E+04	4.86E+03	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Nicotinonitrile	-	-	-	-	-	-	-
Niobium	-	-	-	-	-	-	-
Nitrapyrin	-	-	-	-	-	-	-
Nitrate	-	-	-	-	8.42E+04	-	-
Nitrate + Nitrite (as N)	-	-	-	-	-	-	-
Nitric Acid	-	-	-	-	-	-	-
Nitric Oxide	-	-	-	-	-	-	-
Nitrite	-	-	-	-	5.26E+03	-	-
Nitroaniline, 2-	-	-	-	-	5.26E+02	2.22E+03	5.72E+05
Nitroaniline, 3-	-	-	-	-	-	-	-
Nitroaniline, 4-	2.34E+02	8.32E+02	-	1.83E+02	2.11E+02	8.87E+02	6.87E+07
Nitrobenzene	-	-	4.15E+02	4.15E+02	1.05E+02	-	5.55E+03
Nitrobiphenyl, 4-	-	-	-	-	-	-	-
Nitrocellulose	-	-	-	-	1.58E+08	6.66E+08	-
Nitrodiphenylamine, 2-	-	-	-	-	-	-	-
Nitrofurantoin	-	-	-	-	3.69E+03	1.55E+04	-
Nitrofurazone	3.60E+00	1.28E+01	8.33E+05	2.81E+00	-	-	-
Nitrogen Dioxide	-	-	-	-	-	-	-
Nitroglycerin	2.75E+02	9.78E+02	-	2.15E+02	5.26E+00	2.22E+01	-
Nitroguanidine	-	-	-	-	5.26E+03	2.22E+04	-
Nitromethane	-	-	4.36E+02	4.36E+02	-	-	7.13E+02
Nitrophenol, 2-	-	-	-	-	-	-	-
Nitrophenol, 2-amino-4-	-	-	-	-	-	-	-
Nitrophenol, 3-	-	-	-	-	-	-	-
Nitrophenol, 4-	-	-	-	-	-	-	-
Nitrophenol, 4-amino-2-	-	-	-	-	-	-	-
Nitropropane, 2-	-	-	1.10E+00	1.10E+00	-	-	2.21E+03

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Nicotinonitrile	-	-	-	-	-	
Niobium	-	-	-	-	-	
Nitrapyrin	-	-	-	-	-	
Nitrate	8.42E+04	8.98E+05	-	-	8.98E+05	8.42E+04 nc
Nitrate + Nitrite (as N)	-	-	-	-	-	
Nitric Acid	-	-	-	-	-	
Nitric Oxide	-	-	-	-	-	
Nitrite	5.26E+03	5.62E+04	-	-	5.62E+04	5.26E+03 nc
Nitroaniline, 2-	4.25E+02	5.62E+03	1.33E+04	5.72E+05	3.92E+03	4.25E+02 nc
Nitroaniline, 3-	-	-	-	-	-	
Nitroaniline, 4-	1.70E+02	2.25E+03	5.32E+03	6.87E+07	1.58E+03	1.70E+02 nc
Nitrobenzene	1.03E+02	1.12E+03	-	5.55E+03	9.34E+02	1.03E+02 nc
Nitrobiphenyl, 4-	-	-	-	-	-	
Nitrocellulose	1.28E+08	1.68E+09	3.99E+09	-	1.18E+09	1.28E+08 max
Nitrodiphenylamine, 2-	-	-	-	-	-	
Nitrofurantoin	2.98E+03	3.93E+04	9.31E+04	-	2.76E+04	2.98E+03 nc
Nitrofurazone	-	-	-	-	-	2.81E+00 ca
Nitrogen Dioxide	-	-	-	-	-	
Nitroglycerin	4.25E+00	5.62E+01	1.33E+02	-	3.95E+01	4.25E+00 nc
Nitroguanidine	4.25E+03	5.62E+04	1.33E+05	-	3.95E+04	4.25E+03 nc
Nitromethane	7.13E+02	-	-	7.13E+02	7.13E+02	4.36E+02 ca**
Nitrophenol, 2-	-	-	-	-	-	
Nitrophenol, 2-amino-4-	-	-	-	-	-	
Nitrophenol, 3-	-	-	-	-	-	
Nitrophenol, 4-	-	-	-	-	-	
Nitrophenol, 4-amino-2-	-	-	-	-	-	
Nitropropane, 2-	2.21E+03	-	-	2.21E+03	2.21E+03	1.10E+00 ca

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Nitroquinoline-1-oxide. 4-	56-57-5	No	No	-		-		-	
Nitroso-di-N-butylamine, N-	924-16-3	No	Yes	5.40E+00	I	1.60E-03	I	-	
Nitroso-di-N-propylamine, N-	621-64-7	No	No	7.00E+00	I	2.00E-03	C	-	
Nitroso-N-ethylurea, N-	759-73-9	Yes	No	2.70E+01	C	7.70E-03	C	-	
Nitroso-N-methylurea, N-	684-93-5	Yes	No	1.20E+02	C	3.40E-02	C	-	
Nitrosodiethanolamine, N-	1116-54-7	No	No	2.80E+00	I	8.00E-04	C	-	
Nitrosodiethylamine, N-	55-18-5	Yes	No	1.50E+02	I	4.30E-02	I	-	
Nitrosodimethylamine, N-	62-75-9	Yes	Yes	5.10E+01	I	1.40E-02	I	8.00E-06	P
Nitrosodiphenylamine, N-	86-30-6	No	No	4.90E-03	I	2.60E-06	C	-	
Nitrosomethylethylamine, N-	10595-95-6	No	Yes	2.20E+01	I	6.30E-03	C	-	
Nitrosomethylvinylamine, N-	4549-40-0	No	Yes	-		-		-	
Nitrosomorpholine [N-]	59-89-2	No	No	6.70E+00	C	1.90E-03	C	-	
Nitrosopiperidine [N-]	100-75-4	No	No	9.40E+00	C	2.70E-03	C	-	
Nitrosopyrrolidine, N-	930-55-2	No	No	2.10E+00	I	6.10E-04	I	-	
Nitrotoluene, 4-Amino-2-	119-32-4	No	No	-		-		-	
Nitrotoluene, m-	99-08-1	No	No	-		-		1.00E-04	S
Nitrotoluene, o-	88-72-2	No	Yes	2.20E-01	P	-		9.00E-04	P
Nitrotoluene, p-	99-99-0	No	No	1.60E-02	P	-		4.00E-03	P
Nonachlor, trans-	39765-80-5	No	Yes	-		-		-	
Nonane, n-	111-84-2	No	Yes	-		-		3.00E-04	S
Nonanol, n-	143-08-8	No	Yes	-		-		-	
Norflurazon	27314-13-2	No	No	-		-		4.00E-02	I
Flusilazole	85509-19-9	No	No	-		-		7.00E-04	I
Octabromodiphenyl Ether	32536-52-0	No	No	-		-		3.00E-03	I
Octachlorostyrene	29082-74-4	No	Yes	-		-		-	
Octadecanoic Acid	57-11-4	No	No	-		-		-	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	No	No	-		-		5.00E-02	I
Octahydrotrimethylmethylethylphenanthrenol	511-15-9	No	No	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Nitroquinoline-1-oxide. 4-	-		1	0.1	1	-	-	1.36E+09
Nitroso-di-N-butylamine, N-	-		1	-	1	2.43E+05	-	1.36E+09
Nitroso-di-N-propylamine, N-	-		1	0.1	1	-	-	1.36E+09
Nitroso-N-ethylurea, N-	-		1	0.1	1	-	-	1.36E+09
Nitroso-N-methylurea, N-	-		1	0.1	1	-	-	1.36E+09
Nitrosodiethanolamine, N-	-		1	0.1	1	-	-	1.36E+09
Nitrosodiethylamine, N-	-		1	0.1	1	-	-	1.36E+09
Nitrosodimethylamine, N-	4.00E-05	S	1	-	1	8.23E+04	2.37E+05	1.36E+09
Nitrosodiphenylamine, N-	-		1	0.1	1	-	-	1.36E+09
Nitrosomethylethylamine, N-	-		1	-	1	1.21E+05	1.08E+05	1.36E+09
Nitrosomethylvinylamine, N-	-		1	-	1	8.08E+04	1.08E+04	1.36E+09
Nitrosomorpholine [N-]	-		1	0.1	1	-	-	1.36E+09
Nitrosopiperidine [N-]	-		1	0.1	1	-	-	1.36E+09
Nitrosopyrrolidine, N-	-		1	0.1	1	-	-	1.36E+09
Nitrotoluene, 4-Amino-2-	-		1	0.1	1	-	-	1.36E+09
Nitrotoluene, m-	-		1	0.1	1	-	-	1.36E+09
Nitrotoluene, o-	-		1	-	1	1.37E+05	1.51E+03	1.36E+09
Nitrotoluene, p-	-		1	0.1	1	-	-	1.36E+09
Nonachlor, trans-	-		1	-	1	2.70E+06	-	1.36E+09
Nonane, n-	2.00E-02	P	1	-	1	1.04E+03	6.86E+00	1.36E+09
Nonanol, n-	-		1	-	1	4.65E+04	7.26E+01	1.36E+09
Norflurazon	-		1	0.1	1	-	-	1.36E+09
Flusilazole	-		1	0.1	1	-	-	1.36E+09
Octabromodiphenyl Ether	-		1	0.1	1	-	-	1.36E+09
Octachlorostyrene	-		1	-	1	6.09E+05	-	1.36E+09
Octadecanoic Acid	-		1	0.1	1	-	-	1.36E+09
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	-		1	0.006	1	-	-	1.36E+09
Octahydrotrimethylmethylethylphenanthrenol	-		1	0.1	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Nitroquinoline-1-oxide. 4-	-	-	-	-	-	-	-
Nitroso-di-N-butylamine, N-	8.67E-01	-	3.45E+01	8.45E-01	-	-	-
Nitroso-di-N-propylamine, N-	6.68E-01	2.38E+00	1.54E+05	5.22E-01	-	-	-
Nitroso-N-ethylurea, N-	3.82E-02	1.49E-01	1.45E+04	3.04E-02	-	-	-
Nitroso-N-methylurea, N-	8.59E-03	3.35E-02	3.27E+03	6.84E-03	-	-	-
Nitrosodiethanolamine, N-	1.67E+00	5.94E+00	3.85E+05	1.30E+00	-	-	-
Nitrosodiethylamine, N-	6.87E-03	2.68E-02	2.59E+03	5.47E-03	-	-	-
Nitrosodimethylamine, N-	2.02E-02	-	4.82E-01	1.94E-02	4.21E-01	-	2.77E+01
Nitrosodiphenylamine, N-	9.55E+02	3.39E+03	1.19E+08	7.45E+02	-	-	-
Nitrosomethylethylamine, N-	2.13E-01	-	4.36E+00	2.03E-01	-	-	-
Nitrosomethylvinylamine, N-	-	-	-	-	-	-	-
Nitrosomorpholine [N-]	6.98E-01	2.48E+00	1.62E+05	5.45E-01	-	-	-
Nitrosopiperidine [N-]	4.98E-01	1.77E+00	1.14E+05	3.89E-01	-	-	-
Nitrosopyrrolidine, N-	2.23E+00	7.92E+00	5.05E+05	1.74E+00	-	-	-
Nitrotoluene, 4-Amino-2-	-	-	-	-	-	-	-
Nitrotoluene, m-	-	-	-	-	5.26E+00	2.22E+01	-
Nitrotoluene, o-	2.13E+01	-	-	2.13E+01	4.74E+01	-	-
Nitrotoluene, p-	2.92E+02	1.04E+03	-	2.28E+02	2.11E+02	8.87E+02	-
Nonachlor, trans-	-	-	-	-	-	-	-
Nonane, n-	-	-	-	-	1.58E+01	-	1.76E+02
Nonanol, n-	-	-	-	-	-	-	-
Norflurazon	-	-	-	-	2.11E+03	8.87E+03	-
Flusilazole	-	-	-	-	3.69E+01	1.55E+02	-
Octabromodiphenyl Ether	-	-	-	-	1.58E+02	6.66E+02	-
Octachlorostyrene	-	-	-	-	-	-	-
Octadecanoic Acid	-	-	-	-	-	-	-
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	-	-	-	-	2.63E+03	1.85E+05	-
Octahydrotrimethylmethylethylphenanthrenol	-	-	-	-	-	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Nitroquinoline-1-oxide. 4-	-	-	-	-	-	
Nitroso-di-N-butylamine, N-	-	-	-	-	-	8.45E-01 ca
Nitroso-di-N-propylamine, N-	-	-	-	-	-	5.22E-01 ca
Nitroso-N-ethylurea, N-	-	-	-	-	-	3.04E-02 ca
Nitroso-N-methylurea, N-	-	-	-	-	-	6.84E-03 ca
Nitrosodiethanolamine, N-	-	-	-	-	-	1.30E+00 ca
Nitrosodiethylamine, N-	-	-	-	-	-	5.47E-03 ca
Nitrosodimethylamine, N-	4.15E-01	4.49E+00	-	2.77E+01	3.87E+00	1.94E-02 ca*
Nitrosodiphenylamine, N-	-	-	-	-	-	7.45E+02 ca
Nitrosomethylethylamine, N-	-	-	-	-	-	2.03E-01 ca
Nitrosomethylvinylamine, N-	-	-	-	-	-	
Nitrosomorpholine [N-]	-	-	-	-	-	5.45E-01 ca
Nitrosopiperidine [N-]	-	-	-	-	-	3.89E-01 ca
Nitrosopyrrolidine, N-	-	-	-	-	-	1.74E+00 ca
Nitrotoluene, 4-Amino-2-	-	-	-	-	-	
Nitrotoluene, m-	4.25E+00	5.62E+01	1.33E+02	-	3.95E+01	4.25E+00 nc
Nitrotoluene, o-	4.74E+01	5.05E+02	-	-	5.05E+02	2.13E+01 ca**
Nitrotoluene, p-	1.70E+02	2.25E+03	5.32E+03	-	1.58E+03	1.70E+02 nc
Nonachlor, trans-	-	-	-	-	-	
Nonane, n-	1.45E+01	1.68E+02	-	1.76E+02	8.60E+01	1.45E+01 sat
Nonanol, n-	-	-	-	-	-	
Norflurazon	1.70E+03	2.25E+04	5.32E+04	-	1.58E+04	1.70E+03 nc
Flusilazole	2.98E+01	3.93E+02	9.31E+02	-	2.76E+02	2.98E+01 nc
Octabromodiphenyl Ether	1.28E+02	1.68E+03	3.99E+03	-	1.18E+03	1.28E+02 nc
Octachlorostyrene	-	-	-	-	-	
Octadecanoic Acid	-	-	-	-	-	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2.60E+03	2.81E+04	1.11E+06	-	2.74E+04	2.60E+03 nc
Octahydrotrimethylmethylethylphenanthrenol	-	-	-	-	-	

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Octamethylpyrophosphoramide	152-16-9	No	No	-		-		2.00E-03	H
Octanol, n-	111-87-5	No	Yes	-		-		-	
Octanone, 2-	111-13-7	No	Yes	-		-		-	
Octanone, 3-	106-68-3	No	Yes	-		-		-	
Oleic acid	112-80-1	No	Yes	-		-		-	
Oleum	8014-95-7	No	No	-		-		-	
Oryzalin	19044-88-3	No	No	-		-		5.00E-02	I
Oxadiazon	19666-30-9	No	No	-		-		5.00E-03	I
Oxamyl	23135-22-0	No	No	-		-		2.50E-02	I
Oxychlordane	27304-13-8	No	No	-		-		-	
Ozone	10028-15-6	No	No	-		-		-	
Paclobutrazol	76738-62-0	No	No	-		-		1.30E-02	I
Coronene	191-07-1	No	No	-		-		-	
Paraquat Dichloride	1910-42-5	No	No	-		-		4.50E-03	I
Parathion	56-38-2	No	No	-		-		6.00E-03	H
Pebulate	1114-71-2	No	Yes	-		-		5.00E-02	H
Pendimethalin	40487-42-1	No	No	-		-		4.00E-02	I
Pentabromodiphenyl Ether	32534-81-9	No	Yes	-		-		2.00E-03	I
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9	No	No	-		-		1.00E-04	I
Pentachloroaniline	527-20-8	No	No	-		-		-	
Pentachlorobenzene	608-93-5	No	Yes	-		-		8.00E-04	I
Pentachlorocyclopentadiene	25329-35-5	No	Yes	-		-		-	
Pentachloroethane	76-01-7	No	Yes	9.00E-02	P	-		-	
Pentachloronitrobenzene	82-68-8	No	Yes	2.60E-01	H	-		3.00E-03	I
Pentachlorophenol	87-86-5	No	No	4.00E-01	I	5.10E-06	C	5.00E-03	I
Pentaerythritol tetranitrate (PETN)	78-11-5	No	No	4.00E-03	X	-		2.00E-03	P
Pentamethyl dipropylenetriamine	3855-32-1	No	No	-		-		-	
Pentane, n-	109-66-0	No	Yes	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Octamethylpyrophosphoramide	-		1	0.1	1	-	-	1.36E+09
Octanol, n-	-		1	-	1	3.88E+04	1.78E+02	1.36E+09
Octanone, 2-	-		1	-	1	1.54E+04	3.60E+02	1.36E+09
Octanone, 3-	-		1	-	1	1.88E+04	1.07E+03	1.36E+09
Oleic acid	-		1	-	1	6.92E+05	8.09E-01	1.36E+09
Oleum	-		1	-	1	-	-	1.36E+09
Oryzalin	-		1	0.1	1	-	-	1.36E+09
Oxadiazon	-		1	0.1	1	-	-	1.36E+09
Oxamyl	-		1	0.1	1	-	-	1.36E+09
Oxychlordane	-		1	0.1	1	-	-	1.36E+09
Ozone	-		1	-	1	-	-	1.36E+09
Paclobutrazol	-		1	0.1	1	-	-	1.36E+09
Coronene	-		1	0.13	1	-	-	1.36E+09
Paraquat Dichloride	-		1	0.1	1	-	-	1.36E+09
Parathion	-		1	0.1	1	-	-	1.36E+09
Pebulate	-		1	-	1	4.49E+04	-	1.36E+09
Pendimethalin	-		1	0.1	1	-	-	1.36E+09
Pentabromodiphenyl Ether	-		1	-	1	5.13E+05	3.12E-01	1.36E+09
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	-		1	0.1	1	-	-	1.36E+09
Pentachloroaniline	-		1	0.1	1	-	-	1.36E+09
Pentachlorobenzene	-		1	-	1	8.12E+04	-	1.36E+09
Pentachlorocyclopentadiene	-		1	-	1	1.42E+04	-	1.36E+09
Pentachloroethane	-		1	-	1	9.65E+03	4.57E+02	1.36E+09
Pentachloronitrobenzene	-		1	-	1	4.32E+05	-	1.36E+09
Pentachlorophenol	-		1	0.25	1	-	-	1.36E+09
Pentaerythritol tetranitrate (PETN)	-		1	0.1	1	-	-	1.36E+09
Pentamethyl dipropylenetriamine	-		1	0.1	1	-	-	1.36E+09
Pentane, n-	1.00E+00	P	1	-	1	7.79E+02	3.88E+02	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Octamethylpyrophosphoramide	-	-	-	-	1.05E+02	4.44E+02	-
Octanol, n-	-	-	-	-	-	-	-
Octanone, 2-	-	-	-	-	-	-	-
Octanone, 3-	-	-	-	-	-	-	-
Oleic acid	-	-	-	-	-	-	-
Oleum	-	-	-	-	-	-	-
Oryzalin	-	-	-	-	2.63E+03	1.11E+04	-
Oxadiazon	-	-	-	-	2.63E+02	1.11E+03	-
Oxamyl	-	-	-	-	1.32E+03	5.55E+03	-
Oxychlordane	-	-	-	-	-	-	-
Ozone	-	-	-	-	-	-	-
Paclobutrazol	-	-	-	-	6.84E+02	2.88E+03	-
Coronene	-	-	-	-	-	-	-
Paraquat Dichloride	-	-	-	-	2.37E+02	9.98E+02	-
Parathion	-	-	-	-	3.16E+02	1.33E+03	-
Pebulate	-	-	-	-	2.63E+03	-	-
Pendimethalin	-	-	-	-	2.11E+03	8.87E+03	-
Pentabromodiphenyl Ether	-	-	-	-	1.05E+02	-	-
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	-	-	-	-	5.26E+00	2.22E+01	-
Pentachloroaniline	-	-	-	-	-	-	-
Pentachlorobenzene	-	-	-	-	4.21E+01	-	-
Pentachlorocyclopentadiene	-	-	-	-	-	-	-
Pentachloroethane	5.20E+01	-	-	5.20E+01	-	-	-
Pentachloronitrobenzene	1.80E+01	-	-	1.80E+01	1.58E+02	-	-
Pentachlorophenol	1.17E+01	1.66E+01	6.04E+07	6.87E+00	2.63E+02	4.44E+02	-
Pentaerythritol tetranitrate (PETN)	1.17E+03	4.16E+03	-	9.13E+02	1.05E+02	4.44E+02	-
Pentamethyl dipropylenetriamine	-	-	-	-	-	-	-
Pentane, n-	-	-	-	-	-	-	6.56E+03

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Octamethylpyrophosphoramide	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	8.51E+01 nc
Octanol, n-	-	-	-	-	-	
Octanone, 2-	-	-	-	-	-	
Octanone, 3-	-	-	-	-	-	
Oleic acid	-	-	-	-	-	
Oleum	-	-	-	-	-	
Oryzalin	2.13E+03	2.81E+04	6.65E+04	-	1.97E+04	2.13E+03 nc
Oxadiazon	2.13E+02	2.81E+03	6.65E+03	-	1.97E+03	2.13E+02 nc
Oxamyl	1.06E+03	1.40E+04	3.32E+04	-	9.87E+03	1.06E+03 nc
Oxychlordane	-	-	-	-	-	
Ozone	-	-	-	-	-	
Paclobutrazol	5.53E+02	7.30E+03	1.73E+04	-	5.13E+03	5.53E+02 nc
Coronene	-	-	-	-	-	
Paraquat Dichloride	1.91E+02	2.53E+03	5.98E+03	-	1.78E+03	1.91E+02 nc
Parathion	2.55E+02	3.37E+03	7.98E+03	-	2.37E+03	2.55E+02 nc
Pebulate	2.63E+03	2.81E+04	-	-	2.81E+04	2.63E+03 nc
Pendimethalin	1.70E+03	2.25E+04	5.32E+04	-	1.58E+04	1.70E+03 nc
Pentabromodiphenyl Ether	1.05E+02	1.12E+03	-	-	1.12E+03	1.05E+02 sat
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	4.25E+00	5.62E+01	1.33E+02	-	3.95E+01	4.25E+00 nc
Pentachloroaniline	-	-	-	-	-	
Pentachlorobenzene	4.21E+01	4.49E+02	-	-	4.49E+02	4.21E+01 nc
Pentachlorocyclopentadiene	-	-	-	-	-	
Pentachloroethane	-	-	-	-	-	5.20E+01 ca
Pentachloronitrobenzene	1.58E+02	1.68E+03	-	-	1.68E+03	1.80E+01 ca**
Pentachlorophenol	1.65E+02	2.81E+03	2.66E+03	-	1.37E+03	6.87E+00 ca*
Pentaerythritol tetranitrate (PETN)	8.51E+01	1.12E+03	2.66E+03	-	7.90E+02	8.51E+01 nc
Pentamethyl dipropylenetriamine	-	-	-	-	-	
Pentane, n-	6.56E+03	-	-	6.56E+03	6.56E+03	6.56E+03 sat

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Pentyl Alcohol, N-	71-41-0	No	Yes	-		-		-	
Perfluorobutane Sulfonate	375-73-5	No	Yes	-		-		2.00E-02	P
Perfluorooctane Sulfonate (PFOS)	2795-39-3	No	No	-		-		-	
Perfluorooctane Sulphonic Acid	1763-23-1	No	Yes	-		-		-	
Perfluorooctanoic acid (PFOA)	335-67-1	No	Yes	-		-		-	
Permethrin	52645-53-1	No	No	-		-		5.00E-02	I
Pesticides (total)	NA	No	No	-		-		-	
Pesticides, organochlorinated (each)	NA	No	No	-		-		-	
Pesticides, organochlorinated (total)	NA	No	No	-		-		-	
Phenacetin	62-44-2	No	No	2.20E-03	C	6.30E-07	C	-	
Phenmedipham	13684-63-4	No	No	-		-		2.50E-01	I
Phenol	108-95-2	No	No	-		-		3.00E-01	I
Phenothiazine	92-84-2	No	No	-		-		5.00E-04	S
Phenyl Isothiocyanate	103-72-0	No	Yes	-		-		-	
Phenylenediamine, m-	108-45-2	No	No	-		-		6.00E-03	I
Phenylenediamine, o-	95-54-5	No	No	4.70E-02	H	-		-	
Phenylenediamine, p-	106-50-3	No	No	-		-		1.90E-01	H
Phenylphenol, 2-	90-43-7	No	No	1.94E-03	H	-		-	
Phorate	298-02-2	No	No	-		-		2.00E-04	H
Phosgene	75-44-5	No	Yes	-		-		-	
Phosmet	732-11-6	No	No	-		-		2.00E-02	I
Phosphine	7803-51-2	No	Yes	-		-		3.00E-04	I
Phosphoric Acid	7664-38-2	No	No	-		-		4.86E+01	P
Phosphorus (total)	NA	No	No	-		-		-	
Phosphorus, White	7723-14-0	No	Yes	-		-		2.00E-05	I
Phosphorus pentoxide	1314-56-3	No	No	-		-		-	
Picloram	1918-02-1	No	No	-		-		7.00E-02	I
Picoline, 2-	109-06-8	No	Yes	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Pentyl Alcohol, N-	-		1	-	1	2.83E+04	3.04E+03	1.36E+09
Perfluorobutane Sulfonate	-		1	-	1	1.32E+05	-	1.36E+09
Perfluorooctane Sulfonate (PFOS)	-		-	-	1	-	-	1.36E+09
Perfluorooctane Sulphonic Acid	-		1	-	1	1.07E+05	-	1.36E+09
Perfluorooctanoic acid (PFOA)	-		1	-	1	1.18E+06	-	1.36E+09
Permethrin	-		1	0.1	1	-	-	1.36E+09
Pesticides (total)	-		1	0.1	1	-	-	1.36E+09
Pesticides, organochlorinated (each)	-		1	0.1	1	-	-	1.36E+09
Pesticides, organochlorinated (total)	-		1	0.1	1	-	-	1.36E+09
Phenacetin	-		1	0.1	1	-	-	1.36E+09
Phenmedipham	-		1	0.1	1	-	-	1.36E+09
Phenol	2.00E-01	C	1	0.1	1	-	-	1.36E+09
Phenothiazine	-		1	0.1	1	-	-	1.36E+09
Phenyl Isothiocyanate	-		1	-	1	7.06E+03	1.29E+02	1.36E+09
Phenylenediamine, m-	-		1	0.1	1	-	-	1.36E+09
Phenylenediamine, o-	-		1	0.1	1	-	-	1.36E+09
Phenylenediamine, p-	-		1	0.1	1	-	-	1.36E+09
Phenylphenol, 2-	-		1	0.1	1	-	-	1.36E+09
Phorate	-		1	0.1	1	-	-	1.36E+09
Phosgene	3.00E-04	I	1	-	1	9.81E+02	1.61E+03	1.36E+09
Phosmet	-		1	0.1	1	-	-	1.36E+09
Phosphine	3.00E-04	I	1	-	1	-	-	1.36E+09
Phosphoric Acid	1.00E-02	I	1	-	1	-	-	1.36E+09
Phosphorus (total)	-		1	-	1	-	-	1.36E+09
Phosphorus, White	-		1	-	1	6.92E+03	-	1.36E+09
Phosphorus pentoxide	-		1	-	1	-	-	1.36E+09
Picloram	-		1	0.1	1	-	-	1.36E+09
Picoline, 2-	-		1	-	1	7.64E+04	7.91E+05	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Pentyl Alcohol, N-	-	-	-	-	-	-	-
Perfluorobutane Sulfonate	-	-	-	-	1.05E+03	-	-
Perfluorooctane Sulfonate (PFOS)	-	-	-	-	-	-	-
Perfluorooctane Sulphonic Acid	-	-	-	-	-	-	-
Perfluorooctanoic acid (PFOA)	-	-	-	-	-	-	-
Permethrin	-	-	-	-	2.63E+03	1.11E+04	-
Pesticides (total)	-	-	-	-	-	-	-
Pesticides, organochlorinated (each)	-	-	-	-	-	-	-
Pesticides, organochlorinated (total)	-	-	-	-	-	-	-
Phenacetin	2.13E+03	7.56E+03	4.89E+08	1.66E+03	-	-	-
Phenmedipham	-	-	-	-	1.32E+04	5.55E+04	-
Phenol	-	-	-	-	1.58E+04	6.66E+04	2.29E+09
Phenothiazine	-	-	-	-	2.63E+01	1.11E+02	-
Phenyl Isothiocyanate	-	-	-	-	-	-	-
Phenylenediamine, m-	-	-	-	-	3.16E+02	1.33E+03	-
Phenylenediamine, o-	9.96E+01	3.54E+02	-	7.77E+01	-	-	-
Phenylenediamine, p-	-	-	-	-	1.00E+04	4.22E+04	-
Phenylphenol, 2-	2.41E+03	8.57E+03	-	1.88E+03	-	-	-
Phorate	-	-	-	-	1.05E+01	4.44E+01	-
Phosgene	-	-	-	-	-	-	2.48E+00
Phosmet	-	-	-	-	1.05E+03	4.44E+03	-
Phosphine	-	-	-	-	1.58E+01	-	3.43E+06
Phosphoric Acid	-	-	-	-	2.56E+06	-	1.14E+08
Phosphorus (total)	-	-	-	-	-	-	-
Phosphorus, White	-	-	-	-	1.05E+00	-	-
Phosphorus pentoxide	-	-	-	-	-	-	-
Picloram	-	-	-	-	3.69E+03	1.55E+04	-
Picoline, 2-	-	-	-	-	-	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Pentyl Alcohol, N-	-	-	-	-	-	
Perfluorobutane Sulfonate	1.05E+03	1.12E+04	-	-	1.12E+04	1.05E+03 nc
Perfluorooctane Sulfonate (PFOS)	-	-	-	-	-	
Perfluorooctane Sulphonic Acid	-	-	-	-	-	
Perfluorooctanoic acid (PFOA)	-	-	-	-	-	
Permethrin	2.13E+03	2.81E+04	6.65E+04	-	1.97E+04	2.13E+03 nc
Pesticides (total)	-	-	-	-	-	
Pesticides, organochlorinated (each)	-	-	-	-	-	
Pesticides, organochlorinated (total)	-	-	-	-	-	
Phenacetin	-	-	-	-	-	1.66E+03 ca
Phenmedipham	1.06E+04	1.40E+05	3.32E+05	-	9.87E+04	1.06E+04 nc
Phenol	1.28E+04	1.68E+05	3.99E+05	2.29E+09	1.18E+05	1.28E+04 nc
Phenothiazine	2.13E+01	2.81E+02	6.65E+02	-	1.97E+02	2.13E+01 nc
Phenyl Isothiocyanate	-	-	-	-	-	
Phenylenediamine, m-	2.55E+02	3.37E+03	7.98E+03	-	2.37E+03	2.55E+02 nc
Phenylenediamine, o-	-	-	-	-	-	7.77E+01 ca
Phenylenediamine, p-	8.08E+03	1.07E+05	2.53E+05	-	7.50E+04	8.08E+03 nc
Phenylphenol, 2-	-	-	-	-	-	1.88E+03 ca
Phorate	8.51E+00	1.12E+02	2.66E+02	-	7.90E+01	8.51E+00 nc
Phosgene	2.48E+00	-	-	2.48E+00	2.48E+00	2.48E+00 nc
Phosmet	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Phosphine	1.58E+01	1.68E+02	-	3.43E+06	1.68E+02	1.58E+01 nc
Phosphoric Acid	2.50E+06	2.73E+07	-	1.14E+08	2.20E+07	2.50E+06 max
Phosphorus (total)	-	-	-	-	-	
Phosphorus, White	1.05E+00	1.12E+01	-	-	1.12E+01	1.05E+00 nc
Phosphorus pentoxide	-	-	-	-	-	
Picloram	2.98E+03	3.93E+04	9.31E+04	-	2.76E+04	2.98E+03 nc
Picoline, 2-	-	-	-	-	-	

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	No	No	-		-		1.00E-04	S
Picric Acid (2,4,6-Trinitrophenol)	88-89-1	No	No	-		-		9.00E-04	S
Piperidine	110-89-4	No	Yes	-		-		-	
Pirimiphos, Methyl	29232-93-7	No	No	-		-		1.00E-02	I
Polybrominated Biphenyls	59536-65-1	No	No	3.00E+01	C	8.60E-03	C	7.00E-06	H
Polycyclic chlorinated hydrocarbons (total)	NA	No	No	-		-		-	
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	No	No	-		-		-	
Potassium	7440-09-7	No	No	-		-		-	
Potassium chlorate	3811-04-9	No	No	-		-		-	
Potassium Perfluorobutane Sulfonate	29420-49-3	No	No	-		-		2.00E-02	P
Praseodymium	7440-10-0	No	No	-		-		-	
Praseodymium Chloride (Stable, Nonradioactive)	10361-79-2	No	No	-		-		-	
Prochloraz	67747-09-5	No	No	1.50E-01	I	-		9.00E-03	I
Profluralin	26399-36-0	No	Yes	-		-		6.00E-03	H
Promethium	7440-12-2	No	No	-		-		-	
Prometon	1610-18-0	No	No	-		-		1.50E-02	I
Prometryn	7287-19-6	No	No	-		-		4.00E-03	I
Propachlor	1918-16-7	No	No	-		-		1.30E-02	I
Propanil	709-98-8	No	No	-		-		5.00E-03	I
Propanoic acid, 2-(2,4-dichlorophenoxy)-	120-36-5	No	No	-		-		-	
Propargite	2312-35-8	No	No	-		-		2.00E-02	I
Propargyl Alcohol	107-19-7	No	Yes	-		-		2.00E-03	I
Propazine	139-40-2	No	No	-		-		2.00E-02	I
Propham	122-42-9	No	No	-		-		2.00E-02	I
Propiconazole	60207-90-1	No	No	-		-		1.30E-02	I
Propionaldehyde	123-38-6	No	Yes	-		-		-	
Propionitrile	107-12-0	No	Yes	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Picramic Acid (2-Amino-4,6-dinitrophenol)	-		1	0.1	1	-	-	1.36E+09
Picric Acid (2,4,6-Trinitrophenol)	-		1	0.1	1	-	-	1.36E+09
Piperidine	-		1	-	1	8.11E+04	4.28E+05	1.36E+09
Pirimiphos, Methyl	-		1	0.1	1	-	-	1.36E+09
Polybrominated Biphenyls	-		1	0.1	1	-	-	1.36E+09
Polycyclic chlorinated hydrocarbons (total)	-		1	0.1	1	-	-	1.36E+09
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	6.00E-04	I	1	0.1	1	-	-	1.36E+09
Potassium	-		1	-	1	-	-	1.36E+09
Potassium chlorate	-		1	-	1	-	-	1.36E+09
Potassium Perfluorobutane Sulfonate	-		1	0.1	1	-	-	1.36E+09
Praseodymium	-		1	-	1	-	-	1.36E+09
Praseodymium Chloride (Stable, Nonradioactive)	-		1	-	1	-	-	1.36E+09
Prochloraz	-		1	0.1	1	-	-	1.36E+09
Profluralin	-		1	-	1	4.20E+05	-	1.36E+09
Promethium	-		1	-	1	-	-	1.36E+09
Prometon	-		1	0.1	1	-	-	1.36E+09
Prometryn	-		1	0.1	1	-	-	1.36E+09
Propachlor	-		1	0.1	1	-	-	1.36E+09
Propanil	-		1	0.1	1	-	-	1.36E+09
Propanoic acid, 2-(2,4-dichlorophenoxy)-	-		1	0.1	1	-	-	1.36E+09
Propargite	-		1	0.1	1	-	-	1.36E+09
Propargyl Alcohol	-		1	-	1	6.27E+04	1.11E+05	1.36E+09
Propazine	-		1	0.1	1	-	-	1.36E+09
Propham	-		1	0.1	1	-	-	1.36E+09
Propiconazole	-		1	0.1	1	-	-	1.36E+09
Propionaldehyde	8.00E-03	I	1	-	1	8.94E+03	3.26E+04	1.36E+09
Propionitrile	-		1	-	1	1.50E+04	1.56E+04	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Picramic Acid (2-Amino-4,6-dinitrophenol)	-	-	-	-	5.26E+00	2.22E+01	-
Picric Acid (2,4,6-Trinitrophenol)	-	-	-	-	4.74E+01	2.00E+02	-
Piperidine	-	-	-	-	-	-	-
Pirimiphos, Methyl	-	-	-	-	5.26E+02	2.22E+03	-
Polybrominated Biphenyls	1.56E-01	5.54E-01	3.58E+04	1.22E-01	3.69E-01	1.55E+00	-
Polycyclic chlorinated hydrocarbons (total)	-	-	-	-	-	-	-
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	-	-	-	-	-	-	6.87E+06
Potassium	-	-	-	-	-	-	-
Potassium chlorate	-	-	-	-	-	-	-
Potassium Perfluorobutane Sulfonate	-	-	-	-	1.05E+03	4.44E+03	-
Praseodymium	-	-	-	-	-	-	-
Praseodymium Chloride (Stable, Nonradioactive)	-	-	-	-	-	-	-
Prochloraz	3.12E+01	1.11E+02	-	2.43E+01	4.74E+02	2.00E+03	-
Profluralin	-	-	-	-	3.16E+02	-	-
Promethium	-	-	-	-	-	-	-
Prometon	-	-	-	-	7.90E+02	3.33E+03	-
Prometryn	-	-	-	-	2.11E+02	8.87E+02	-
Propachlor	-	-	-	-	6.84E+02	2.88E+03	-
Propanil	-	-	-	-	2.63E+02	1.11E+03	-
Propanoic acid, 2-(2,4-dichlorophenoxy)-	-	-	-	-	-	-	-
Propargite	-	-	-	-	1.05E+03	4.44E+03	-
Propargyl Alcohol	-	-	-	-	1.05E+02	-	-
Propazine	-	-	-	-	1.05E+03	4.44E+03	-
Propham	-	-	-	-	1.05E+03	4.44E+03	-
Propiconazole	-	-	-	-	6.84E+02	2.88E+03	-
Propionaldehyde	-	-	-	-	-	-	6.03E+02
Propionitrile	-	-	-	-	-	-	-

Site-specific

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Picramic Acid (2-Amino-4,6-dinitrophenol)	4.25E+00	5.62E+01	1.33E+02	-	3.95E+01	4.25E+00 nc
Picric Acid (2,4,6-Trinitrophenol)	3.83E+01	5.05E+02	1.20E+03	-	3.55E+02	3.83E+01 nc
Piperidine	-	-	-	-	-	
Pirimiphos, Methyl	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	4.25E+02 nc
Polybrominated Biphenyls	2.98E-01	3.93E+00	9.31E+00	-	2.76E+00	1.22E-01 ca**
Polycyclic chlorinated hydrocarbons (total)	-	-	-	-	-	
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	6.87E+06	-	-	6.87E+06	6.87E+06	6.87E+06 max
Potassium	-	-	-	-	-	
Potassium chlorate	-	-	-	-	-	
Potassium Perfluorobutane Sulfonate	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Praseodymium	-	-	-	-	-	
Praseodymium Chloride (Stable, Nonradioactive)	-	-	-	-	-	
Prochloraz	3.83E+02	5.05E+03	1.20E+04	-	3.55E+03	2.43E+01 ca*
Profluralin	3.16E+02	3.37E+03	-	-	3.37E+03	3.16E+02 nc
Promethium	-	-	-	-	-	
Prometon	6.38E+02	8.42E+03	1.99E+04	-	5.92E+03	6.38E+02 nc
Prometryn	1.70E+02	2.25E+03	5.32E+03	-	1.58E+03	1.70E+02 nc
Propachlor	5.53E+02	7.30E+03	1.73E+04	-	5.13E+03	5.53E+02 nc
Propanil	2.13E+02	2.81E+03	6.65E+03	-	1.97E+03	2.13E+02 nc
Propanoic acid, 2-(2,4-dichlorophenoxy)-	-	-	-	-	-	
Propargite	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Propargyl Alcohol	1.05E+02	1.12E+03	-	-	1.12E+03	1.05E+02 nc
Propazine	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Propham	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Propiconazole	5.53E+02	7.30E+03	1.73E+04	-	5.13E+03	5.53E+02 nc
Propionaldehyde	6.03E+02	-	-	6.03E+02	6.03E+02	6.03E+02 nc
Propionitrile	-	-	-	-	-	

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Propionitrile, 3-(NN-dimethylamino)	1738-25-6	No	Yes	-		-		-	
Propyl benzene	103-65-1	No	Yes	-		-		1.00E-01	S
Propyl Alcohol, n-	71-23-8	No	Yes	-		-		-	
Propylene	115-07-1	No	Yes	-		-		-	
Propylene Glycol	57-55-6	No	No	-		-		2.00E+01	P
Propylene Glycol Monoethyl Ether	1569-02-4	No	Yes	-		-		-	
Propylene Glycol Monomethyl Ether	107-98-2	No	Yes	-		-		7.00E-01	H
Propylene Glycol Dinitrate	6423-43-4	No	No	-		-		-	
Propylene Oxide	75-56-9	No	Yes	2.40E-01	I	3.70E-06	I	-	
Prussian Blue (Ferric Ferrocyanide)	14038-43-8	No	No	-		-		-	
Imazethapyr	81335-77-5	No	No	-		-		2.50E-01	I
Fenvalerate	51630-58-1	No	No	-		-		2.50E-02	I
Pyrazinyl phosphorothioate, O,O-diethyl O-2-	297-97-2	No	No	-		-		-	
Pyridine	110-86-1	No	Yes	-		-		1.00E-03	I
Ammonium Perchlorate	7790-98-9	No	No	-		-		7.00E-04	I
Lithium Perchlorate	7791-03-9	No	No	-		-		7.00E-04	I
Perchlorate and Perchlorate Salts	14797-73-0	No	No	-		-		7.00E-04	I
Potassium Perchlorate	7778-74-7	No	No	-		-		7.00E-04	I
Sodium Perchlorate	7601-89-0	No	No	-		-		7.00E-04	I
Aluminum metaphosphate	13776-88-0	No	No	-		-		4.86E+01	P
Ammonium polyphosphate	68333-79-9	No	No	-		-		4.86E+01	P
Calcium pyrophosphate	7790-76-3	No	No	-		-		4.86E+01	P
Diammonium phosphate	7783-28-0	No	No	-		-		4.86E+01	P

Site-specific

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Propionitrile, 3-(NN-dimethylamino)	-		1	-	1	1.88E+05	1.60E+05	1.36E+09
Propyl benzene	1.00E+00	S	1	-	1	6.99E+03	2.64E+02	1.36E+09
Propyl Alcohol, n-	-		1	-	1	2.91E+04	1.11E+05	1.36E+09
Propylene	3.00E+00	C	1	-	1	7.04E+02	3.49E+02	1.36E+09
Propylene Glycol	-		1	0.1	1	-	-	1.36E+09
Propylene Glycol Monoethyl Ether	-		1	-	1	1.46E+05	3.95E+04	1.36E+09
Propylene Glycol Monomethyl Ether	2.00E+00	I	1	-	1	7.83E+04	1.06E+05	1.36E+09
Propylene Glycol Dinitrate	2.72E-04	A	1	0.1	1	-	-	1.36E+09
Propylene Oxide	3.00E-02	I	1	-	1	1.03E+04	7.77E+04	1.36E+09
Prussian Blue (Ferric Ferrocyanide)	-		1	0.1	1	-	-	1.36E+09
Imazethapyr	-		1	0.1	1	-	-	1.36E+09
Fenvalerate	-		1	0.1	1	-	-	1.36E+09
Pyrazinyl phosphorothioate, O,O-diethyl O-2-	-		1	0.1	1	-	-	1.36E+09
Pyridine	-		1	-	1	5.54E+04	5.30E+05	1.36E+09
Ammonium Perchlorate	-		1	-	1	-	-	1.36E+09
Lithium Perchlorate	-		1	-	1	-	-	1.36E+09
Perchlorate and Perchlorate Salts	-		1	-	1	-	-	1.36E+09
Potassium Perchlorate	-		1	-	1	-	-	1.36E+09
Sodium Perchlorate	-		1	-	1	-	-	1.36E+09
Aluminum metaphosphate	-		1	-	1	-	-	1.36E+09
Ammonium polyphosphate	-		1	-	1	-	-	1.36E+09
Calcium pyrophosphate	-		1	-	1	-	-	1.36E+09
Diammonium phosphate	-		1	-	1	-	-	1.36E+09

Site-specific

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Propionitrile, 3-(NN-dimethylamino)	-	-	-	-	-	-	-
Propyl benzene	-	-	-	-	5.26E+03	-	5.89E+04
Propyl Alcohol, n-	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	1.78E+04
Propylene Glycol	-	-	-	-	1.05E+06	4.44E+06	-
Propylene Glycol Monoethyl Ether	-	-	-	-	-	-	-
Propylene Glycol Monomethyl Ether	-	-	-	-	3.69E+04	-	1.32E+06
Propylene Glycol Dinitrate	-	-	-	-	-	-	3.11E+06
Propylene Oxide	1.95E+01	-	6.31E+02	1.89E+01	-	-	2.60E+03
Prussian Blue (Ferric Ferrocyanide)	-	-	-	-	-	-	-
Imazethapyr	-	-	-	-	1.32E+04	5.55E+04	-
Fenvalerate	-	-	-	-	1.32E+03	5.55E+03	-
Pyrazinyl phosphorothioate, O,O-diethyl O-2-	-	-	-	-	-	-	-
Pyridine	-	-	-	-	5.26E+01	-	-
Ammonium Perchlorate	-	-	-	-	3.69E+01	-	-
Lithium Perchlorate	-	-	-	-	3.69E+01	-	-
Perchlorate and Perchlorate Salts	-	-	-	-	3.69E+01	-	-
Potassium Perchlorate	-	-	-	-	3.69E+01	-	-
Sodium Perchlorate	-	-	-	-	3.69E+01	-	-
Aluminum metaphosphate	-	-	-	-	2.56E+06	-	-
Ammonium polyphosphate	-	-	-	-	2.56E+06	-	-
Calcium pyrophosphate	-	-	-	-	2.56E+06	-	-
Diammonium phosphate	-	-	-	-	2.56E+06	-	-

Site-specific

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Propionitrile, 3-(NN-dimethylamino)	-	-	-	-	-	
Propyl benzene	4.83E+03	5.62E+04	-	5.89E+04	2.87E+04	4.83E+03 sat
Propyl Alcohol, n-	-	-	-	-	-	
Propylene	1.78E+04	-	-	1.78E+04	1.78E+04	1.78E+04 sat
Propylene Glycol	8.51E+05	1.12E+07	2.66E+07	-	7.90E+06	8.51E+05 max
Propylene Glycol Monoethyl Ether	-	-	-	-	-	
Propylene Glycol Monomethyl Ether	3.58E+04	3.93E+05	-	1.32E+06	3.03E+05	3.58E+04 nc
Propylene Glycol Dinitrate	3.11E+06	-	-	3.11E+06	3.11E+06	3.11E+06 max
Propylene Oxide	2.60E+03	-	-	2.60E+03	2.60E+03	1.89E+01 ca
Prussian Blue (Ferric Ferrocyanide)	-	-	-	-	-	
Imazethapyr	1.06E+04	1.40E+05	3.32E+05	-	9.87E+04	1.06E+04 nc
Fenvalerate	1.06E+03	1.40E+04	3.32E+04	-	9.87E+03	1.06E+03 nc
Pyrazinyl phosphorothioate, O,O-diethyl O-2-	-	-	-	-	-	
Pyridine	5.26E+01	5.62E+02	-	-	5.62E+02	5.26E+01 nc
Ammonium Perchlorate	3.69E+01	3.93E+02	-	-	3.93E+02	3.69E+01 nc
Lithium Perchlorate	3.69E+01	3.93E+02	-	-	3.93E+02	3.69E+01 nc
Perchlorate and Perchlorate Salts	3.69E+01	3.93E+02	-	-	3.93E+02	3.69E+01 nc
Potassium Perchlorate	3.69E+01	3.93E+02	-	-	3.93E+02	3.69E+01 nc
Sodium Perchlorate	3.69E+01	3.93E+02	-	-	3.93E+02	3.69E+01 nc
Aluminum metaphosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Ammonium polyphosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Calcium pyrophosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Diammonium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Dicalcium phosphate	7757-93-9	No	No	-		-		4.86E+01	P
Dimagnesium phosphate	7782-75-4	No	No	-		-		4.86E+01	P
Dipotassium phosphate	7758-11-4	No	No	-		-		4.86E+01	P
Disodium phosphate	7558-79-4	No	No	-		-		4.86E+01	P
Monoaluminum phosphate	13530-50-2	No	No	-		-		4.86E+01	P
Monoammonium phosphate	7722-76-1	No	No	-		-		4.86E+01	P
Monocalcium phosphate	7758-23-8	No	No	-		-		4.86E+01	P
Monomagnesium phosphate	7757-86-0	No	No	-		-		4.86E+01	P
Monopotassium phosphate	7778-77-0	No	No	-		-		4.86E+01	P
Monosodium phosphate	7558-80-7	No	No	-		-		4.86E+01	P
Polyphosphoric acid	8017-16-1	No	No	-		-		4.86E+01	P
Potassium tripolyphosphate	13845-36-8	No	No	-		-		4.86E+01	P
Sodium acid pyrophosphate	7758-16-9	No	No	-		-		4.86E+01	P
Sodium aluminum phosphate (acidic)	7785-88-8	No	No	-		-		4.86E+01	P
Sodium aluminum phosphate (anhydrous)	10279-59-1	No	No	-		-		4.86E+01	P
Sodium aluminum phosphate (tetrahydrate)	10305-76-7	No	No	-		-		4.86E+01	P

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Dicalcium phosphate	-		1	-	1	-	-	1.36E+09
Dimagnesium phosphate	-		1	-	1	-	-	1.36E+09
Dipotassium phosphate	-		1	-	1	-	-	1.36E+09
Disodium phosphate	-		1	-	1	-	-	1.36E+09
Monoaluminum phosphate	-		1	-	1	-	-	1.36E+09
Monoammonium phosphate	-		1	-	1	-	-	1.36E+09
Monocalcium phosphate	-		1	-	1	-	-	1.36E+09
Monomagnesium phosphate	-		1	-	1	-	-	1.36E+09
Monopotassium phosphate	-		1	-	1	-	-	1.36E+09
Monosodium phosphate	-		1	-	1	-	-	1.36E+09
Polyphosphoric acid	-		1	-	1	-	-	1.36E+09
Potassium tripolyphosphate	-		1	-	1	-	-	1.36E+09
Sodium acid pyrophosphate	-		1	-	1	-	-	1.36E+09
Sodium aluminum phosphate (acidic)	-		1	-	1	-	-	1.36E+09
Sodium aluminum phosphate (anhydrous)	-		1	-	1	-	-	1.36E+09
Sodium aluminum phosphate (tetrahydrate)	-		1	-	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Dicalcium phosphate	-	-	-	-	2.56E+06	-	-
Dimagnesium phosphate	-	-	-	-	2.56E+06	-	-
Dipotassium phosphate	-	-	-	-	2.56E+06	-	-
Disodium phosphate	-	-	-	-	2.56E+06	-	-
Monoaluminum phosphate	-	-	-	-	2.56E+06	-	-
Monoammonium phosphate	-	-	-	-	2.56E+06	-	-
Monocalcium phosphate	-	-	-	-	2.56E+06	-	-
Monomagnesium phosphate	-	-	-	-	2.56E+06	-	-
Monopotassium phosphate	-	-	-	-	2.56E+06	-	-
Monosodium phosphate	-	-	-	-	2.56E+06	-	-
Polyphosphoric acid	-	-	-	-	2.56E+06	-	-
Potassium tripolyphosphate	-	-	-	-	2.56E+06	-	-
Sodium acid pyrophosphate	-	-	-	-	2.56E+06	-	-
Sodium aluminum phosphate (acidic)	-	-	-	-	2.56E+06	-	-
Sodium aluminum phosphate (anhydrous)	-	-	-	-	2.56E+06	-	-
Sodium aluminum phosphate (tetrahydrate)	-	-	-	-	2.56E+06	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Dicalcium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Dimagnesium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Dipotassium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Disodium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Monoaluminum phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Monoammonium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Monocalcium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Monomagnesium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Monopotassium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Monosodium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Polyphosphoric acid	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Potassium tripolyphosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Sodium acid pyrophosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Sodium aluminum phosphate (acidic)	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Sodium aluminum phosphate (anhydrous)	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Sodium aluminum phosphate (tetrahydrate)	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max

Site-specific

Recreator Screening Levels (RSL) for Soil

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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Sodium hexametaphosphate	10124-56-8	No	No	-		-		4.86E+01	P
Sodium polyphosphate	68915-31-1	No	No	-		-		4.86E+01	P
Sodium trimetaphosphate	7785-84-4	No	No	-		-		4.86E+01	P
Sodium tripolyphosphate	7758-29-4	No	No	-		-		4.86E+01	P
Tetrapotassium phosphate	7320-34-5	No	No	-		-		4.86E+01	P
Tetrasodium pyrophosphate	7722-88-5	No	No	-		-		4.86E+01	P
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5	No	No	-		-		4.86E+01	P
Tricalcium phosphate	7758-87-4	No	No	-		-		4.86E+01	P
Trimagnesium phosphate	7757-87-1	No	No	-		-		4.86E+01	P
Tripotassium phosphate	7778-53-2	No	No	-		-		4.86E+01	P
Trisodium phosphate	7601-54-9	No	No	-		-		4.86E+01	P
Bis(2-ethylhexyl)phthalate	117-81-7	No	No	1.40E-02	I	2.40E-06	C	2.00E-02	I
Bromophenyl-phenyl phthalate, 4-	NA	No	No	-		-		-	
Butylphthalyl Butylglycolate	85-70-1	No	No	-		-		1.00E+00	I
Di-n-hexylphthalate	84-75-3	No	Yes	-		-		-	
Dibutyl Phthalate	84-74-2	No	No	-		-		1.00E-01	I
Diethyl Phthalate	84-66-2	No	No	-		-		8.00E-01	I
Dimethylphthalate	131-11-3	No	No	-		-		-	
Dimethylterephthalate	120-61-6	No	Yes	-		-		1.00E-01	I

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Sodium hexametaphosphate	-		1	-	1	-	-	1.36E+09
Sodium polyphosphate	-		1	-	1	-	-	1.36E+09
Sodium trimetaphosphate	-		1	-	1	-	-	1.36E+09
Sodium tripolyphosphate	-		1	-	1	-	-	1.36E+09
Tetrapotassium phosphate	-		1	-	1	-	-	1.36E+09
Tetrasodium pyrophosphate	-		1	-	1	-	-	1.36E+09
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	-		1	-	1	-	-	1.36E+09
Tricalcium phosphate	-		1	-	1	-	-	1.36E+09
Trimagnesium phosphate	-		1	-	1	-	-	1.36E+09
Tripotassium phosphate	-		1	-	1	-	-	1.36E+09
Trisodium phosphate	-		1	-	1	-	-	1.36E+09
Bis(2-ethylhexyl)phthalate	-		1	0.1	1	-	-	1.36E+09
Bromophenyl-phenyl phthalate, 4-	-		1	0.1	1	-	-	1.36E+09
Butylphthalyl Butylglycolate	-		1	0.1	1	-	-	1.36E+09
Di-n-hexylphthalate	-		1	-	1	9.63E+05	3.84E+00	1.36E+09
Dibutyl Phthalate	-		1	0.1	1	-	-	1.36E+09
Diethyl Phthalate	-		1	0.1	1	-	-	1.36E+09
Dimethylphthalate	-		1	0.1	1	-	-	1.36E+09
Dimethylterephthalate	-		1	-	1	2.13E+04	-	1.36E+09

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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Sodium hexametaphosphate	-	-	-	-	2.56E+06	-	-
Sodium polyphosphate	-	-	-	-	2.56E+06	-	-
Sodium trimetaphosphate	-	-	-	-	2.56E+06	-	-
Sodium tripolyphosphate	-	-	-	-	2.56E+06	-	-
Tetrapotassium phosphate	-	-	-	-	2.56E+06	-	-
Tetrasodium pyrophosphate	-	-	-	-	2.56E+06	-	-
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	-	-	-	-	2.56E+06	-	-
Tricalcium phosphate	-	-	-	-	2.56E+06	-	-
Trimagnesium phosphate	-	-	-	-	2.56E+06	-	-
Tripotassium phosphate	-	-	-	-	2.56E+06	-	-
Trisodium phosphate	-	-	-	-	2.56E+06	-	-
Bis(2-ethylhexyl)phthalate	3.34E+02	1.19E+03	1.28E+08	2.61E+02	1.05E+03	4.44E+03	-
Bromophenyl-phenyl phthalate, 4-	-	-	-	-	-	-	-
Butylphthalyl Butylglycolate	-	-	-	-	5.26E+04	2.22E+05	-
Di-n-hexylphthalate	-	-	-	-	-	-	-
Dibutyl Phthalate	-	-	-	-	5.26E+03	2.22E+04	-
Diethyl Phthalate	-	-	-	-	4.21E+04	1.77E+05	-
Dimethylphthalate	-	-	-	-	-	-	-
Dimethylterephthalate	-	-	-	-	5.26E+03	-	-

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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Sodium hexametaphosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Sodium polyphosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Sodium trimetaphosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Sodium tripolyphosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Tetrapotassium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Tetrasodium pyrophosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Tricalcium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Trimagnesium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Tripotassium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Trisodium phosphate	2.56E+06	2.73E+07	-	-	2.73E+07	2.56E+06 max
Bis(2-ethylhexyl)phthalate	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	2.61E+02 ca**
Bromophenyl-phenyl phthalate, 4-	-	-	-	-	-	
Butylphthalyl Butylglycolate	4.25E+04	5.62E+05	1.33E+06	-	3.95E+05	4.25E+04 nc
Di-n-hexylphthalate	-	-	-	-	-	
Dibutyl Phthalate	4.25E+03	5.62E+04	1.33E+05	-	3.95E+04	4.25E+03 nc
Diethyl Phthalate	3.40E+04	4.49E+05	1.06E+06	-	3.16E+05	3.40E+04 nc
Dimethylphthalate	-	-	-	-	-	
Dimethylterephthalate	5.26E+03	5.62E+04	-	-	5.62E+04	5.26E+03 nc

Site-specific

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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Octyl Phthalate, di-N-	117-84-0	No	No	-		-		1.00E-02	P
Phthalates (total)	NA	No	No	-		-		-	
Phthalic Acid, P-	100-21-0	No	No	-		-		1.00E+00	H
Phthalic Acid, m-	121-91-5	No	No	-		-		-	
Phthalic Acid, o-	88-99-3	No	No	-		-		-	
Phthalic Anhydride	85-44-9	No	No	-		-		2.00E+00	I
Tetrachloroterephthalate, 2,3,5,6-	2136-79-0	No	No	-		-		-	
Aroclor 1016	12674-11-2	No	Yes	7.00E-02	S	2.00E-05	S	7.00E-05	I
Aroclor 1221	11104-28-2	No	Yes	2.00E+00	S	5.71E-04	S	-	
Aroclor 1232	11141-16-5	No	Yes	2.00E+00	S	5.71E-04	S	-	
Aroclor 1242	53469-21-9	No	Yes	2.00E+00	S	5.71E-04	S	-	
Aroclor 1248	12672-29-6	No	Yes	2.00E+00	S	5.71E-04	S	-	
Aroclor 1254	11097-69-1	No	Yes	2.00E+00	S	5.71E-04	S	2.00E-05	I
Aroclor 1260	11096-82-5	No	Yes	2.00E+00	S	5.71E-04	S	-	
Aroclor 5460	11126-42-4	No	Yes	-		-		6.00E-04	S
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	No	Yes	3.90E+00	W	1.14E-03	W	2.33E-05	W
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	No	Yes	3.90E+00	W	1.14E-03	W	2.33E-05	W
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	No	Yes	3.90E+00	W	1.14E-03	W	2.33E-05	W
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	No	Yes	3.90E+00	W	1.14E-03	W	2.33E-05	W
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	No	Yes	3.90E+03	W	1.14E+00	W	2.33E-08	W
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	No	Yes	3.90E+00	W	1.14E-03	W	2.33E-05	W
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	No	Yes	3.90E+00	W	1.14E-03	W	2.33E-05	W

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Octyl Phthalate, di-N-	-		1	0.1	1	-	-	1.36E+09
Phthalates (total)	-		1	0.1	1	-	-	1.36E+09
Phthalic Acid, P-	-		1	0.1	1	-	-	1.36E+09
Phthalic Acid, m-	-		1	0.1	1	-	-	1.36E+09
Phthalic Acid, o-	-		1	0.1	1	-	-	1.36E+09
Phthalic Anhydride	2.00E-02	C	1	0.1	1	-	-	1.36E+09
Tetrachloroterephthalate, 2,3,5,6-	-		1	0.1	1	-	-	1.36E+09
Aroclor 1016	-		1	0.14	1	7.14E+05	-	1.36E+09
Aroclor 1221	-		1	0.14	1	2.04E+05	-	1.36E+09
Aroclor 1232	-		1	0.14	1	1.12E+05	-	1.36E+09
Aroclor 1242	-		1	0.14	1	5.91E+05	-	1.36E+09
Aroclor 1248	-		1	0.14	1	6.25E+05	-	1.36E+09
Aroclor 1254	-		1	0.14	1	8.43E+05	-	1.36E+09
Aroclor 1260	-		1	0.14	1	1.31E+06	-	1.36E+09
Aroclor 5460	-		1	0.14	1	9.56E+05	-	1.36E+09
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	1.33E-03	W	1	0.14	1	3.34E+06	-	1.36E+09
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	1.33E-03	W	1	0.14	1	2.20E+06	-	1.36E+09
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	1.33E-03	W	1	0.14	1	1.45E+06	-	1.36E+09
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	1.33E-03	W	1	0.14	1	1.54E+06	-	1.36E+09
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	1.33E-06	W	1	0.14	1	2.20E+06	-	1.36E+09
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	1.33E-03	W	1	0.14	1	1.03E+06	-	1.36E+09
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	1.33E-03	W	1	0.14	1	8.29E+05	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Octyl Phthalate, di-N-	-	-	-	-	5.26E+02	2.22E+03	-
Phthalates (total)	-	-	-	-	-	-	-
Phthalic Acid, P-	-	-	-	-	5.26E+04	2.22E+05	-
Phthalic Acid, m-	-	-	-	-	-	-	-
Phthalic Acid, o-	-	-	-	-	-	-	-
Phthalic Anhydride	-	-	-	-	1.05E+05	4.44E+05	2.29E+08
Tetrachloroterephthalate, 2,3,5,6-	-	-	-	-	-	-	-
Aroclor 1016	6.68E+01	1.70E+02	8.09E+03	4.77E+01	3.69E+00	1.11E+01	-
Aroclor 1221	2.34E+00	5.94E+00	8.09E+01	1.64E+00	-	-	-
Aroclor 1232	2.34E+00	5.94E+00	4.44E+01	1.62E+00	-	-	-
Aroclor 1242	2.34E+00	5.94E+00	2.34E+02	1.67E+00	-	-	-
Aroclor 1248	2.34E+00	5.94E+00	2.48E+02	1.67E+00	-	-	-
Aroclor 1254	2.34E+00	5.94E+00	3.34E+02	1.67E+00	1.05E+00	3.17E+00	-
Aroclor 1260	2.34E+00	5.94E+00	5.21E+02	1.67E+00	-	-	-
Aroclor 5460	-	-	-	-	3.16E+01	9.51E+01	-
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	1.20E+00	3.05E+00	6.64E+02	8.60E-01	1.23E+00	3.70E+00	3.75E+04
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	1.20E+00	3.05E+00	4.37E+02	8.59E-01	1.23E+00	3.70E+00	2.47E+04
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	1.20E+00	3.05E+00	2.88E+02	8.58E-01	1.23E+00	3.70E+00	1.63E+04
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	1.20E+00	3.05E+00	3.06E+02	8.58E-01	1.23E+00	3.70E+00	1.73E+04
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	1.20E-03	3.05E-03	4.37E-01	8.59E-04	1.23E-03	3.70E-03	2.47E+01
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	1.20E+00	3.05E+00	2.05E+02	8.57E-01	1.23E+00	3.70E+00	1.16E+04
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	1.20E+00	3.05E+00	1.65E+02	8.56E-01	1.23E+00	3.70E+00	9.31E+03

Site-specific

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Octyl Phthalate, di-N-	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	4.25E+02 nc
Phthalates (total)	-	-	-	-	-	
Phthalic Acid, P-	4.25E+04	5.62E+05	1.33E+06	-	3.95E+05	4.25E+04 nc
Phthalic Acid, m-	-	-	-	-	-	
Phthalic Acid, o-	-	-	-	-	-	
Phthalic Anhydride	8.51E+04	1.12E+06	2.66E+06	2.29E+08	7.87E+05	8.51E+04 nc
Tetrachloroterephthalate, 2,3,5,6-	-	-	-	-	-	
Aroclor 1016	2.77E+00	3.93E+01	6.65E+01	-	2.47E+01	2.77E+00 nc
Aroclor 1221	-	-	-	-	-	1.64E+00 ca
Aroclor 1232	-	-	-	-	-	1.62E+00 ca
Aroclor 1242	-	-	-	-	-	1.67E+00 ca
Aroclor 1248	-	-	-	-	-	1.67E+00 ca
Aroclor 1254	7.90E-01	1.12E+01	1.90E+01	-	7.06E+00	7.90E-01 nc
Aroclor 1260	-	-	-	-	-	1.67E+00 ca
Aroclor 5460	2.37E+01	3.37E+02	5.70E+02	-	2.12E+02	2.37E+01 nc
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	9.22E-01	1.31E+01	2.22E+01	3.75E+04	8.23E+00	8.60E-01 ca**
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	9.22E-01	1.31E+01	2.22E+01	2.47E+04	8.23E+00	8.59E-01 ca**
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	9.22E-01	1.31E+01	2.22E+01	1.63E+04	8.23E+00	8.58E-01 ca**
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	9.22E-01	1.31E+01	2.22E+01	1.73E+04	8.23E+00	8.58E-01 ca**
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	9.22E-04	1.31E-02	2.22E-02	2.47E+01	8.23E-03	8.59E-04 ca**
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	9.22E-01	1.31E+01	2.22E+01	1.16E+04	8.23E+00	8.57E-01 ca**
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	9.22E-01	1.31E+01	2.22E+01	9.31E+03	8.23E+00	8.56E-01 ca**

Site-specific

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	No	Yes	3.90E+00	W	1.14E-03	W	2.33E-05	W
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	No	Yes	3.90E+00	W	1.14E-03	W	2.33E-05	W
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	No	Yes	1.30E+04	W	3.80E+00	W	7.00E-09	W
Polychlorinated Biphenyls (high risk)	1336-36-3	No	Yes	2.00E+00	I	5.71E-04	I	-	
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	No	No	1.30E+01	W	3.80E-03	W	7.00E-06	W
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	No	Yes	3.90E+01	W	1.14E-02	W	2.33E-06	W
Acenaphthene	83-32-9	No	Yes	-		-		6.00E-02	I
Acenaphthylene	208-96-8	No	Yes	-		-		-	
Anthracene	120-12-7	No	Yes	-		-		3.00E-01	I
Benz[a]anthracene	56-55-3	Yes	Yes	7.30E-01	W	1.10E-04	C	-	
Benzo(j)fluoranthene	205-82-3	No	No	1.20E+00	C	1.10E-04	C	-	
Benzo[a]pyrene	50-32-8	Yes	No	7.30E+00	I	1.10E-03	C	-	
Benzo[b]fluoranthene	205-99-2	Yes	No	7.30E-01	W	1.10E-04	C	-	
Benzo[g,h,i]perylene	191-24-2	No	No	-		-		-	
Benzo[k]fluoranthene	207-08-9	Yes	No	7.30E-02	W	1.10E-04	C	-	
Chloronaphthalene, Beta-	91-58-7	No	Yes	-		-		8.00E-02	I
Chrysene	218-01-9	Yes	No	7.30E-03	W	1.10E-05	C	-	
Dibenz[a,h]anthracene	53-70-3	Yes	No	7.30E+00	W	1.20E-03	C	-	
Dibenzo(a,e)pyrene	192-65-4	No	No	1.20E+01	C	1.10E-03	C	-	
Dimethylbenz(a)anthracene, 7,12-	57-97-6	Yes	No	2.50E+02	C	7.10E-02	C	-	
Fluoranthene	206-44-0	No	No	-		-		4.00E-02	I
Fluorene	86-73-7	No	Yes	-		-		4.00E-02	I
Indeno[1,2,3-cd]pyrene	193-39-5	Yes	No	7.30E-01	W	1.10E-04	C	-	
Methylnaphthalene, 1-	90-12-0	No	Yes	2.90E-02	P	-		7.00E-02	A
Methylnaphthalene, 2-	91-57-6	No	Yes	-		-		4.00E-03	I

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	1.33E-03	W	1	0.14	1	8.45E+05	-	1.36E+09
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	1.33E-03	W	1	0.14	1	1.48E+06	-	1.36E+09
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	4.00E-07	W	1	0.14	1	1.02E+06	-	1.36E+09
Polychlorinated Biphenyls (high risk)	-		1	0.14	1	5.32E+05	-	1.36E+09
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	4.00E-04	W	1	0.14	1	-	-	1.36E+09
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	1.33E-04	W	1	0.14	1	7.25E+05	-	1.36E+09
Acenaphthene	-		1	0.13	1	1.41E+05	-	1.36E+09
Acenaphthylene	-		1	0.13	1	1.89E+05	-	1.36E+09
Anthracene	-		1	0.13	1	5.23E+05	-	1.36E+09
Benz[a]anthracene	-		1	0.13	1	4.41E+06	-	1.36E+09
Benzo(j)fluoranthene	-		1	0.13	1	-	-	1.36E+09
Benzo[a]pyrene	-		1	0.13	1	-	-	1.36E+09
Benzo[b]fluoranthene	-		1	0.13	1	-	-	1.36E+09
Benzo[g,h,i]perylene	-		1	0.13	1	-	-	1.36E+09
Benzo[k]fluoranthene	-		1	0.13	1	-	-	1.36E+09
Chloronaphthalene, Beta-	-		1	0.13	1	7.99E+04	-	1.36E+09
Chrysene	-		1	0.13	1	-	-	1.36E+09
Dibenz[a,h]anthracene	-		1	0.13	1	-	-	1.36E+09
Dibenzo(a,e)pyrene	-		1	0.13	1	-	-	1.36E+09
Dimethylbenz(a)anthracene, 7,12-	-		1	0.13	1	-	-	1.36E+09
Fluoranthene	-		1	0.13	1	-	-	1.36E+09
Fluorene	-		1	0.13	1	2.81E+05	-	1.36E+09
Indeno[1,2,3-cd]pyrene	-		1	0.13	1	-	-	1.36E+09
Methylnaphthalene, 1-	-		1	0.13	1	5.86E+04	3.94E+02	1.36E+09
Methylnaphthalene, 2-	-		1	0.13	1	5.80E+04	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	1.20E+00	3.05E+00	1.68E+02	8.56E-01	1.23E+00	3.70E+00	9.49E+03
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	1.20E+00	3.05E+00	2.93E+02	8.58E-01	1.23E+00	3.70E+00	1.65E+04
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	3.60E-04	9.14E-04	6.09E-02	2.57E-04	3.69E-04	1.11E-03	3.44E+00
Polychlorinated Biphenyls (high risk)	2.34E+00	5.94E+00	2.11E+02	1.67E+00	-	-	-
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	3.60E-01	9.14E-01	8.11E+04	2.58E-01	3.69E-01	1.11E+00	4.58E+06
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	1.20E-01	3.05E-01	1.44E+01	8.56E-02	1.23E-01	3.70E-01	8.14E+02
Acenaphthene	-	-	-	-	3.16E+03	1.02E+04	-
Acenaphthylene	-	-	-	-	-	-	-
Anthracene	-	-	-	-	1.58E+04	5.12E+04	-
Benz[a]anthracene	1.41E+00	4.23E+00	3.27E+03	1.06E+00	-	-	-
Benzo(j)fluoranthene	3.90E+00	1.07E+01	2.80E+06	2.86E+00	-	-	-
Benzo[a]pyrene	1.41E-01	4.23E-01	1.01E+05	1.06E-01	-	-	-
Benzo[b]fluoranthene	1.41E+00	4.23E+00	1.01E+06	1.06E+00	-	-	-
Benzo[g,h,i]perylene	-	-	-	-	-	-	-
Benzo[k]fluoranthene	1.41E+01	4.23E+01	1.01E+06	1.06E+01	-	-	-
Chloronaphthalene, Beta-	-	-	-	-	4.21E+03	1.37E+04	-
Chrysene	1.41E+02	4.23E+02	1.01E+07	1.06E+02	-	-	-
Dibenz[a,h]anthracene	1.41E-01	4.23E-01	9.28E+04	1.06E-01	-	-	-
Dibenzo(a,e)pyrene	3.90E-01	1.07E+00	2.80E+05	2.86E-01	-	-	-
Dimethylbenz(a)anthracene, 7,12-	4.12E-03	1.24E-02	1.57E+03	3.09E-03	-	-	-
Fluoranthene	-	-	-	-	2.11E+03	6.83E+03	-
Fluorene	-	-	-	-	2.11E+03	6.83E+03	-
Indeno[1,2,3-cd]pyrene	1.41E+00	4.23E+00	1.01E+06	1.06E+00	-	-	-
Methylnaphthalene, 1-	1.61E+02	4.41E+02	-	1.18E+02	3.69E+03	1.19E+04	-
Methylnaphthalene, 2-	-	-	-	-	2.11E+02	6.83E+02	-

Site-specific

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	9.22E-01	1.31E+01	2.22E+01	9.49E+03	8.23E+00	8.56E-01 ca**
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	9.22E-01	1.31E+01	2.22E+01	1.65E+04	8.23E+00	8.58E-01 ca**
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	2.77E-04	3.93E-03	6.65E-03	3.44E+00	2.47E-03	2.57E-04 ca**
Polychlorinated Biphenyls (high risk)	-	-	-	-	-	1.67E+00 ca
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	2.77E-01	3.93E+00	6.65E+00	4.58E+06	2.47E+00	2.58E-01 ca**
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	9.22E-02	1.31E+00	2.22E+00	8.14E+02	8.23E-01	8.56E-02 ca**
Acenaphthene	2.41E+03	3.37E+04	6.14E+04	-	2.18E+04	2.41E+03 nc
Acenaphthylene	-	-	-	-	-	
Anthracene	1.21E+04	1.68E+05	3.07E+05	-	1.09E+05	1.21E+04 nc
Benz[a]anthracene	-	-	-	-	-	1.06E+00 ca
Benzo(j)fluoranthene	-	-	-	-	-	2.86E+00 ca
Benzo[a]pyrene	-	-	-	-	-	1.06E-01 ca
Benzo[b]fluoranthene	-	-	-	-	-	1.06E+00 ca
Benzo[g,h,i]perylene	-	-	-	-	-	
Benzo[k]fluoranthene	-	-	-	-	-	1.06E+01 ca
Chloronaphthalene, Beta-	3.22E+03	4.49E+04	8.18E+04	-	2.90E+04	3.22E+03 nc
Chrysene	-	-	-	-	-	1.06E+02 ca
Dibenz[a,h]anthracene	-	-	-	-	-	1.06E-01 ca
Dibenzo(a,e)pyrene	-	-	-	-	-	2.86E-01 ca
Dimethylbenz(a)anthracene, 7,12-	-	-	-	-	-	3.09E-03 ca
Fluoranthene	1.61E+03	2.25E+04	4.09E+04	-	1.45E+04	1.61E+03 nc
Fluorene	1.61E+03	2.25E+04	4.09E+04	-	1.45E+04	1.61E+03 nc
Indeno[1,2,3-cd]pyrene	-	-	-	-	-	1.06E+00 ca
Methylnaphthalene, 1-	2.82E+03	3.93E+04	7.16E+04	-	2.54E+04	1.18E+02 ca*
Methylnaphthalene, 2-	1.61E+02	2.25E+03	4.09E+03	-	1.45E+03	1.61E+02 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Naphthalene	91-20-3	No	Yes	-		3.40E-05	C	2.00E-02	I
Nitropyrene, 4-	57835-92-4	No	No	1.20E+00	C	1.10E-04	C	-	
Perylene	198-55-0	No	No	-		-		-	
Phenanthrene	85-01-8	No	Yes	-		-		-	
Polycyclic aromatic hydrocarbons (PAH), Total	NA	No	No	-		-		-	
Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)	NA	No	No	-		-		-	
Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)	NA	No	No	-		-		-	
Pyrene	129-00-0	No	Yes	-		-		3.00E-02	I
Quinalphos	13593-03-8	No	No	-		-		5.00E-04	I
Quinoline	91-22-5	No	No	3.00E+00	I	-		-	
Refractory Ceramic Fibers	NA	No	No	-		-		-	
Resmethrin	10453-86-8	No	No	-		-		3.00E-02	I
Resorcinol	108-46-3	No	No	-		-		-	
Ronnel	299-84-3	No	Yes	-		-		5.00E-02	H
Rotenone	83-79-4	No	No	-		-		4.00E-03	I
Safrole	94-59-7	Yes	No	2.20E-01	C	6.30E-05	C	-	
Samarium Chloride (Stable, Nonradioactive)	10361-82-7	No	No	-		-		-	
Samarium Nitrate (Stable, Nonradioactive)	10361-83-8	No	No	-		-		-	
Hexythiazox	78587-05-0	No	No	-		-		2.50E-02	I
Scandium	7440-20-2	No	No	-		-		-	
Selenious Acid	7783-00-8	No	No	-		-		5.00E-03	I
Selenite	14124-67-5	No	No	-		-		-	
Selenium	7782-49-2	No	No	-		-		5.00E-03	I
Selenium Sulfide	7446-34-6	No	No	-		-		5.00E-03	C
Selenourea	630-10-4	No	Yes	-		-		-	
Sethoxydim	74051-80-2	No	No	-		-		9.00E-02	I

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Naphthalene	3.00E-03	I	1	0.13	1	4.63E+04	-	1.36E+09
Nitropyrene, 4-	-		1	0.13	1	-	-	1.36E+09
Perylene	-		1	0.13	1	-	-	1.36E+09
Phenanthrene	-		1	0.13	1	6.43E+05	-	1.36E+09
Polycyclic aromatic hydrocarbons (PAH), Total	-		1	0.13	1	-	-	1.36E+09
Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)	-		1	0.13	1	-	-	1.36E+09
Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)	-		1	0.13	1	-	-	1.36E+09
Pyrene	-		1	0.13	1	2.38E+06	-	1.36E+09
Quinalphos	-		1	0.1	1	-	-	1.36E+09
Quinoline	-		1	0.1	1	-	-	1.36E+09
Refractory Ceramic Fibers	3.00E-02	A	1	-	1	-	-	1.36E+09
Resmethrin	-		1	0.1	1	-	-	1.36E+09
Resorcinol	-		1	0.1	1	-	-	1.36E+09
Ronnel	-		1	-	1	4.65E+05	-	1.36E+09
Rotenone	-		1	0.1	1	-	-	1.36E+09
Safrole	-		1	0.1	1	-	-	1.36E+09
Samarium Chloride (Stable, Nonradioactive)	-		1	-	1	-	-	1.36E+09
Samarium Nitrate (Stable, Nonradioactive)	-		1	-	1	-	-	1.36E+09
Hexythiazox	-		1	0.1	1	-	-	1.36E+09
Scandium	-		1	-	1	-	-	1.36E+09
Selenious Acid	-		1	-	1	-	-	1.36E+09
Selenite	-		1	-	1	-	-	1.36E+09
Selenium	2.00E-02	C	1	-	1	-	-	1.36E+09
Selenium Sulfide	2.00E-02	C	1	-	1	-	-	1.36E+09
Selenourea	-		1	-	1	-	-	1.36E+09
Sethoxydim	-		1	0.1	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Naphthalene	-	-	3.09E+02	3.09E+02	1.05E+03	3.41E+03	1.17E+03
Nitropyrene, 4-	3.90E+00	1.07E+01	2.80E+06	2.86E+00	-	-	-
Perylene	-	-	-	-	-	-	-
Phenanthrene	-	-	-	-	-	-	-
Polycyclic aromatic hydrocarbons (PAH), Total	-	-	-	-	-	-	-
Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)	-	-	-	-	-	-	-
Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)	-	-	-	-	-	-	-
Pyrene	-	-	-	-	1.58E+03	5.12E+03	-
Quinalphos	-	-	-	-	2.63E+01	1.11E+02	-
Quinoline	1.56E+00	5.54E+00	-	1.22E+00	-	-	-
Refractory Ceramic Fibers	-	-	-	-	-	-	3.43E+08
Resmethrin	-	-	-	-	1.58E+03	6.66E+03	-
Resorcinol	-	-	-	-	-	-	-
Ronnel	-	-	-	-	2.63E+03	-	-
Rotenone	-	-	-	-	2.11E+02	8.87E+02	-
Safrole	4.69E+00	1.83E+01	1.77E+06	3.73E+00	-	-	-
Samarium Chloride (Stable, Nonradioactive)	-	-	-	-	-	-	-
Samarium Nitrate (Stable, Nonradioactive)	-	-	-	-	-	-	-
Hexythiazox	-	-	-	-	1.32E+03	5.55E+03	-
Scandium	-	-	-	-	-	-	-
Selenious Acid	-	-	-	-	2.63E+02	-	-
Selenite	-	-	-	-	-	-	-
Selenium	-	-	-	-	2.63E+02	-	2.29E+08
Selenium Sulfide	-	-	-	-	2.63E+02	-	2.29E+08
Selenourea	-	-	-	-	-	-	-
Sethoxydim	-	-	-	-	4.74E+03	2.00E+04	-

Site-specific

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Naphthalene	4.77E+02	1.12E+04	2.05E+04	1.17E+03	1.01E+03	3.09E+02 ca**
Nitropyrene, 4-	-	-	-	-	-	2.86E+00 ca
Perylene	-	-	-	-	-	
Phenanthrene	-	-	-	-	-	
Polycyclic aromatic hydrocarbons (PAH), Total	-	-	-	-	-	
Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)	-	-	-	-	-	
Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)	-	-	-	-	-	
Pyrene	1.21E+03	1.68E+04	3.07E+04	-	1.09E+04	1.21E+03 nc
Quinalphos	2.13E+01	2.81E+02	6.65E+02	-	1.97E+02	2.13E+01 nc
Quinoline	-	-	-	-	-	1.22E+00 ca
Refractory Ceramic Fibers	3.43E+08	-	-	3.43E+08	3.43E+08	3.43E+08 max
Resmethrin	1.28E+03	1.68E+04	3.99E+04	-	1.18E+04	1.28E+03 nc
Resorcinol	-	-	-	-	-	
Ronnel	2.63E+03	2.81E+04	-	-	2.81E+04	2.63E+03 nc
Rotenone	1.70E+02	2.25E+03	5.32E+03	-	1.58E+03	1.70E+02 nc
Safrole	-	-	-	-	-	3.73E+00 ca
Samarium Chloride (Stable, Nonradioactive)	-	-	-	-	-	
Samarium Nitrate (Stable, Nonradioactive)	-	-	-	-	-	
Hexythiazox	1.06E+03	1.40E+04	3.32E+04	-	9.87E+03	1.06E+03 nc
Scandium	-	-	-	-	-	
Selenious Acid	2.63E+02	2.81E+03	-	-	2.81E+03	2.63E+02 nc
Selenite	-	-	-	-	-	
Selenium	2.63E+02	2.81E+03	-	2.29E+08	2.81E+03	2.63E+02 nc
Selenium Sulfide	2.63E+02	2.81E+03	-	2.29E+08	2.81E+03	2.63E+02 nc
Selenourea	-	-	-	-	-	
Sethoxydim	3.83E+03	5.05E+04	1.20E+05	-	3.55E+04	3.83E+03 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Silica (crystalline, respirable)	7631-86-9	No	No	-		-		-	
Silicon	7440-21-3	No	No	-		-		-	
Silver	7440-22-4	No	No	-		-		5.00E-03	I
Simazine	122-34-9	No	No	1.20E-01	H	-		5.00E-03	I
Sodium	7440-23-5	No	No	-		-		-	
Sodium Acifluorfen	62476-59-9	No	No	-		-		1.30E-02	I
Sodium Azide	26628-22-8	No	No	-		-		4.00E-03	I
Sodium Diethyldithiocarbamate	148-18-5	No	No	2.70E-01	H	-		3.00E-02	I
Sodium Fluoride	7681-49-4	No	No	-		-		5.00E-02	A
Sodium Fluoroacetate	62-74-8	No	No	-		-		2.00E-05	I
Sodium Metavanadate	13718-26-8	No	No	-		-		1.00E-03	H
Sodium Chlorate	7775-09-9	No	No	-		-		-	
Sodium Dichromate	10588-01-9	Yes	No	5.00E-01	C	1.50E-01	C	2.00E-02	C
Sodium Hydroxide	1310-73-2	No	No	-		-		-	
Sodium Tungstate	13472-45-2	No	No	-		-		8.00E-04	P
Sodium Tungstate Dihydrate	10213-10-2	No	No	-		-		8.00E-04	P
Stearyl Acetate	822-23-1	No	Yes	-		-		-	
Stirofos (Tetrachlorovinphos)	961-11-5	No	No	2.40E-02	H	-		3.00E-02	I
Strontium, Stable	7440-24-6	No	No	-		-		6.00E-01	I
Strontium Chromate	7789-06-2	Yes	No	5.00E-01	C	1.50E-01	C	2.00E-02	C
Strychnine	57-24-9	No	No	-		-		3.00E-04	I
Styrene	100-42-5	No	Yes	-		-		2.00E-01	I
Styrene-Acrylonitrile (SAN) Trimer	NA	No	No	-		-		3.00E-03	P
Sulfate	14808-79-8	No	No	-		-		-	
Sulfide	18496-25-8	No	No	-		-		-	
Sulfite	14265-45-3	No	No	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Silica (crystalline, respirable)	3.00E-03	C	1	-	1	-	-	1.36E+09
Silicon	-		1	-	1	-	-	1.36E+09
Silver	-		0.04	-	1	-	-	1.36E+09
Simazine	-		1	0.1	1	-	-	1.36E+09
Sodium	-		1	-	1	-	-	1.36E+09
Sodium Acifluorfen	-		1	0.1	1	-	-	1.36E+09
Sodium Azide	-		1	-	1	-	-	1.36E+09
Sodium Diethyldithiocarbamate	-		1	0.1	1	-	-	1.36E+09
Sodium Fluoride	1.30E-02	C	1	-	1	-	-	1.36E+09
Sodium Fluoroacetate	-		1	0.1	1	-	-	1.36E+09
Sodium Metavanadate	-		1	-	1	-	-	1.36E+09
Sodium Chlorate	-		1	-	1	-	-	1.36E+09
Sodium Dichromate	2.00E-04	C	0.025	-	1	-	-	1.36E+09
Sodium Hydroxide	-		1	-	1	-	-	1.36E+09
Sodium Tungstate	-		1	-	1	-	-	1.36E+09
Sodium Tungstate Dihydrate	-		1	-	1	-	-	1.36E+09
Stearyl Acetate	-		1	-	1	8.73E+04	-	1.36E+09
Stirofos (Tetrachlorovinphos)	-		1	0.1	1	-	-	1.36E+09
Strontium, Stable	-		1	-	1	-	-	1.36E+09
Strontium Chromate	2.00E-04	C	0.025	-	1	-	-	1.36E+09
Strychnine	-		1	0.1	1	-	-	1.36E+09
Styrene	1.00E+00	I	1	-	1	9.35E+03	8.67E+02	1.36E+09
Styrene-Acrylonitrile (SAN) Trimer	-		1	0.1	1	-	-	1.36E+09
Sulfate	-		1	-	1	-	-	1.36E+09
Sulfide	-		1	-	1	-	-	1.36E+09
Sulfite	-		1	-	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Silica (crystalline, respirable)	-	-	-	-	-	-	3.43E+07
Silicon	-	-	-	-	-	-	-
Silver	-	-	-	-	2.63E+02	-	-
Simazine	3.90E+01	1.39E+02	-	3.04E+01	2.63E+02	1.11E+03	-
Sodium	-	-	-	-	-	-	-
Sodium Acifluorfen	-	-	-	-	6.84E+02	2.88E+03	-
Sodium Azide	-	-	-	-	2.11E+02	-	-
Sodium Diethyldithiocarbamate	1.73E+01	6.16E+01	-	1.35E+01	1.58E+03	6.66E+03	-
Sodium Fluoride	-	-	-	-	2.63E+03	-	1.49E+08
Sodium Fluoroacetate	-	-	-	-	1.05E+00	4.44E+00	-
Sodium Metavanadate	-	-	-	-	5.26E+01	-	-
Sodium Chlorate	-	-	-	-	-	-	-
Sodium Dichromate	2.06E+00	-	7.42E+02	2.06E+00	1.05E+03	-	2.29E+06
Sodium Hydroxide	-	-	-	-	-	-	-
Sodium Tungstate	-	-	-	-	4.21E+01	-	-
Sodium Tungstate Dihydrate	-	-	-	-	4.21E+01	-	-
Stearyl Acetate	-	-	-	-	-	-	-
Stirofos (Tetrachlorovinphos)	1.95E+02	6.93E+02	-	1.52E+02	1.58E+03	6.66E+03	-
Strontium, Stable	-	-	-	-	3.16E+04	-	-
Strontium Chromate	2.06E+00	-	7.42E+02	2.06E+00	1.05E+03	-	2.29E+06
Strychnine	-	-	-	-	1.58E+01	6.66E+01	-
Styrene	-	-	-	-	1.05E+04	-	7.87E+04
Styrene-Acrylonitrile (SAN) Trimer	-	-	-	-	1.58E+02	6.66E+02	-
Sulfate	-	-	-	-	-	-	-
Sulfide	-	-	-	-	-	-	-
Sulfite	-	-	-	-	-	-	-

Site-specific

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Silica (crystalline, respirable)	3.43E+07	-	-	3.43E+07	3.43E+07	3.43E+07 max
Silicon	-	-	-	-	-	
Silver	2.63E+02	2.81E+03	-	-	2.81E+03	2.63E+02 nc
Simazine	2.13E+02	2.81E+03	6.65E+03	-	1.97E+03	3.04E+01 ca**
Sodium	-	-	-	-	-	
Sodium Acifluorfen	5.53E+02	7.30E+03	1.73E+04	-	5.13E+03	5.53E+02 nc
Sodium Azide	2.11E+02	2.25E+03	-	-	2.25E+03	2.11E+02 nc
Sodium Diethyldithiocarbamate	1.28E+03	1.68E+04	3.99E+04	-	1.18E+04	1.35E+01 ca*
Sodium Fluoride	2.63E+03	2.81E+04	-	1.49E+08	2.81E+04	2.63E+03 nc
Sodium Fluoroacetate	8.51E-01	1.12E+01	2.66E+01	-	7.90E+00	8.51E-01 nc
Sodium Metavanadate	5.26E+01	5.62E+02	-	-	5.62E+02	5.26E+01 nc
Sodium Chlorate	-	-	-	-	-	
Sodium Dichromate	1.05E+03	1.12E+04	-	2.29E+06	1.12E+04	2.06E+00 ca
Sodium Hydroxide	-	-	-	-	-	
Sodium Tungstate	4.21E+01	4.49E+02	-	-	4.49E+02	4.21E+01 nc
Sodium Tungstate Dihydrate	4.21E+01	4.49E+02	-	-	4.49E+02	4.21E+01 nc
Stearyl Acetate	-	-	-	-	-	
Stirofos (Tetrachlorovinphos)	1.28E+03	1.68E+04	3.99E+04	-	1.18E+04	1.52E+02 ca**
Strontium, Stable	3.16E+04	3.37E+05	-	-	3.37E+05	3.16E+04 nc
Strontium Chromate	1.05E+03	1.12E+04	-	2.29E+06	1.12E+04	2.06E+00 ca
Strychnine	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	1.28E+01 nc
Styrene	9.29E+03	1.12E+05	-	7.87E+04	4.63E+04	9.29E+03 sat
Styrene-Acrylonitrile (SAN) Trimer	1.28E+02	1.68E+03	3.99E+03	-	1.18E+03	1.28E+02 nc
Sulfate	-	-	-	-	-	
Sulfide	-	-	-	-	-	
Sulfite	-	-	-	-	-	

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Sulfolane	126-33-0	No	No	-		-		1.00E-03	P
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	No	No	-		-		8.00E-04	P
Sulfur	7704-34-9	No	No	-		-		-	
Sulfur Dioxide	7446-09-5	No	Yes	-		-		-	
Sulfur Mustard	505-60-2	No	Yes	-		-		-	
Sulfur Trioxide	7446-11-9	No	Yes	-		-		-	
Sulfuric Acid	7664-93-9	No	No	-		-		-	
Myclobutanil	88671-89-0	No	No	-		-		2.50E-02	I
TCMTB	21564-17-0	No	No	-		-		3.00E-02	H
Tebuthiuron	34014-18-1	No	No	-		-		7.00E-02	I
Technetium	7440-26-8	No	No	-		-		-	
Tellurium	13494-80-9	No	No	-		-		-	
Temephos	3383-96-8	No	No	-		-		2.00E-02	H
Terbacil	5902-51-2	No	No	-		-		1.30E-02	I
Terbufos	13071-79-9	No	Yes	-		-		2.50E-05	H
Terbutryn	886-50-0	No	No	-		-		1.00E-03	I
Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	5436-43-1	No	No	-		-		1.00E-04	I
Tetrachloroaniline, 2,3,5,6-	3481-20-7	No	No	-		-		-	
Tetrachlorobenzene, 1,2,3,4-	634-66-2	No	Yes	-		-		-	
Tetrachlorobenzene, 1,2,4,5-	95-94-3	No	Yes	-		-		3.00E-04	I
Tetrachloroethane, 1,1,1,2-	630-20-6	No	Yes	2.60E-02	I	7.40E-06	I	3.00E-02	I
Tetrachloroethane, 1,1,2,2-	79-34-5	No	Yes	2.00E-01	I	5.80E-05	C	2.00E-02	I
Tetrachloroethylene	127-18-4	No	Yes	2.10E-03	I	2.60E-07	I	6.00E-03	I
Tetrachlorophenol, 2,3,4,5-	4901-51-3	No	No	-		-		-	
Tetrachlorophenol, 2,3,4,6-	58-90-2	No	No	-		-		3.00E-02	I
Tetrachlorophenols (total)	25167-83-3	No	No	-		-		-	
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	No	Yes	2.00E+01	H	-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Sulfolane	2.00E-03	S	1	0.1	1	-	-	1.36E+09
Sulfonylbis(4-chlorobenzene), 1,1'-	-		1	0.1	1	-	-	1.36E+09
Sulfur	-		1	-	1	-	-	1.36E+09
Sulfur Dioxide	-		1	-	1	-	-	1.36E+09
Sulfur Mustard	-		1	-	1	8.76E+04	1.05E+03	1.36E+09
Sulfur Trioxide	1.00E-03	C	1	-	1	-	-	1.36E+09
Sulfuric Acid	1.00E-03	C	1	-	1	-	-	1.36E+09
Myclobutanil	-		1	0.1	1	-	-	1.36E+09
TCMTB	-		1	0.1	1	-	-	1.36E+09
Tebuthiuron	-		1	0.1	1	-	-	1.36E+09
Technetium	-		1	-	1	-	-	1.36E+09
Tellurium	-		1	-	1	-	-	1.36E+09
Temephos	-		1	0.1	1	-	-	1.36E+09
Terbacil	-		1	0.1	1	-	-	1.36E+09
Terbufos	-		1	-	1	2.64E+05	3.09E+01	1.36E+09
Terbutryn	-		1	0.1	1	-	-	1.36E+09
Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	-		1	0.1	1	-	-	1.36E+09
Tetrachloroaniline, 2,3,5,6-	-		1	0.1	1	-	-	1.36E+09
Tetrachlorobenzene, 1,2,3,4-	-		1	-	1	5.99E+04	-	1.36E+09
Tetrachlorobenzene, 1,2,4,5-	-		1	-	1	5.07E+04	-	1.36E+09
Tetrachloroethane, 1,1,1,2-	-		1	-	1	5.68E+03	6.80E+02	1.36E+09
Tetrachloroethane, 1,1,2,2-	-		1	-	1	1.51E+04	1.90E+03	1.36E+09
Tetrachloroethylene	4.00E-02	I	1	-	1	2.35E+03	1.66E+02	1.36E+09
Tetrachlorophenol, 2,3,4,5-	-		1	0.1	1	-	-	1.36E+09
Tetrachlorophenol, 2,3,4,6-	-		1	0.1	1	-	-	1.36E+09
Tetrachlorophenols (total)	-		1	0.1	1	-	-	1.36E+09
Tetrachlorotoluene, p- alpha, alpha, alpha-	-		1	-	1	1.05E+05	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Sulfolane	-	-	-	-	5.26E+01	2.22E+02	2.29E+07
Sulfonylbis(4-chlorobenzene), 1,1'-	-	-	-	-	4.21E+01	1.77E+02	-
Sulfur	-	-	-	-	-	-	-
Sulfur Dioxide	-	-	-	-	-	-	-
Sulfur Mustard	-	-	-	-	-	-	-
Sulfur Trioxide	-	-	-	-	-	-	1.14E+07
Sulfuric Acid	-	-	-	-	-	-	1.14E+07
Myclobutanil	-	-	-	-	1.32E+03	5.55E+03	-
TCMTB	-	-	-	-	1.58E+03	6.66E+03	-
Tebuthiuron	-	-	-	-	3.69E+03	1.55E+04	-
Technetium	-	-	-	-	-	-	-
Tellurium	-	-	-	-	-	-	-
Temephos	-	-	-	-	1.05E+03	4.44E+03	-
Terbacil	-	-	-	-	6.84E+02	2.88E+03	-
Terbufos	-	-	-	-	1.32E+00	-	-
Terbutryn	-	-	-	-	5.26E+01	2.22E+02	-
Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	-	-	-	-	5.26E+00	2.22E+01	-
Tetrachloroaniline, 2,3,5,6-	-	-	-	-	-	-	-
Tetrachlorobenzene, 1,2,3,4-	-	-	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	-	-	-	-	1.58E+01	-	-
Tetrachloroethane, 1,1,1,2-	1.80E+02	-	1.74E+02	8.84E+01	1.58E+03	-	-
Tetrachloroethane, 1,1,2,2-	2.34E+01	-	5.91E+01	1.68E+01	1.05E+03	-	-
Tetrachloroethylene	2.23E+03	-	2.05E+03	1.07E+03	3.16E+02	-	7.91E+02
Tetrachlorophenol, 2,3,4,5-	-	-	-	-	-	-	-
Tetrachlorophenol, 2,3,4,6-	-	-	-	-	1.58E+03	6.66E+03	-
Tetrachlorophenols (total)	-	-	-	-	-	-	-
Tetrachlorotoluene, p- alpha, alpha, alpha-	2.34E-01	-	-	2.34E-01	-	-	-

Site-specific

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Sulfolane	4.25E+01	5.62E+02	1.33E+03	2.29E+07	3.95E+02	4.25E+01 nc
Sulfonylbis(4-chlorobenzene), 1,1'-	3.40E+01	4.49E+02	1.06E+03	-	3.16E+02	3.40E+01 nc
Sulfur	-	-	-	-	-	
Sulfur Dioxide	-	-	-	-	-	
Sulfur Mustard	-	-	-	-	-	
Sulfur Trioxide	1.14E+07	-	-	1.14E+07	1.14E+07	1.14E+07 max
Sulfuric Acid	1.14E+07	-	-	1.14E+07	1.14E+07	1.14E+07 max
Myclobutanil	1.06E+03	1.40E+04	3.32E+04	-	9.87E+03	1.06E+03 nc
TCMTB	1.28E+03	1.68E+04	3.99E+04	-	1.18E+04	1.28E+03 nc
Tebuthiuron	2.98E+03	3.93E+04	9.31E+04	-	2.76E+04	2.98E+03 nc
Technetium	-	-	-	-	-	
Tellurium	-	-	-	-	-	
Temephos	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Terbacil	5.53E+02	7.30E+03	1.73E+04	-	5.13E+03	5.53E+02 nc
Terbufos	1.32E+00	1.40E+01	-	-	1.40E+01	1.32E+00 nc
Terbutryn	4.25E+01	5.62E+02	1.33E+03	-	3.95E+02	4.25E+01 nc
Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	4.25E+00	5.62E+01	1.33E+02	-	3.95E+01	4.25E+00 nc
Tetrachloroaniline, 2,3,5,6-	-	-	-	-	-	
Tetrachlorobenzene, 1,2,3,4-	-	-	-	-	-	
Tetrachlorobenzene, 1,2,4,5-	1.58E+01	1.68E+02	-	-	1.68E+02	1.58E+01 nc
Tetrachloroethane, 1,1,1,2-	1.58E+03	1.68E+04	-	-	1.68E+04	8.84E+01 ca*
Tetrachloroethane, 1,1,2,2-	1.05E+03	1.12E+04	-	-	1.12E+04	1.68E+01 ca*
Tetrachloroethylene	2.26E+02	3.37E+03	-	7.91E+02	6.41E+02	2.26E+02 sat
Tetrachlorophenol, 2,3,4,5-	-	-	-	-	-	
Tetrachlorophenol, 2,3,4,6-	1.28E+03	1.68E+04	3.99E+04	-	1.18E+04	1.28E+03 nc
Tetrachlorophenols (total)	-	-	-	-	-	
Tetrachlorotoluene, p- alpha, alpha, alpha-	-	-	-	-	-	2.34E-01 ca

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Tetraethyl Dithiopyrophosphate	3689-24-5	No	No	-		-		5.00E-04	I
Tetrafluoroethane, 1,1,1,2-	811-97-2	No	Yes	-		-		-	
Tetrahydrothiophene	110-01-0	No	Yes	-		-		-	
Tetramethylcyclohexane	30501-43-0	No	Yes	-		-		-	
Tetryl (Trinitrophenylmethylnitramine)	479-45-8	No	No	-		-		2.00E-03	P
Thallic Oxide	1314-32-5	No	No	-		-		-	
Thallium (I) Nitrate	10102-45-1	No	No	-		-		7.00E-06	S
Thallium (Soluble Salts)	7440-28-0	No	No	-		-		1.00E-05	S
Thallium Acetate	563-68-8	No	Yes	-		-		6.00E-06	S
Thallium Carbonate	6533-73-9	No	Yes	-		-		2.00E-05	S
Thallium Chloride	7791-12-0	No	No	-		-		6.00E-06	S
Thallium Selenite	12039-52-0	No	No	-		-		-	
Thallium Sulfate	7446-18-6	No	No	-		-		2.00E-05	S
Thiobencarb	28249-77-6	No	No	-		-		1.00E-02	I
Thiodiglycol	111-48-8	No	No	-		-		7.00E-02	S
Thiofanox	39196-18-4	No	No	-		-		3.00E-04	H
Thiophanate, Methyl	23564-05-8	No	No	-		-		8.00E-02	I
Thiophene	110-02-1	No	Yes	-		-		-	
Thiram	137-26-8	No	No	-		-		5.00E-03	I
Thorium	7440-29-1	No	No	-		-		-	
Thymol	89-83-8	No	No	-		-		-	
Tin	7440-31-5	No	No	-		-		6.00E-01	H
Titanium	7440-32-6	No	No	-		-		-	
Titanium Tetrachloride	7550-45-0	No	Yes	-		-		-	
Toluene	108-88-3	No	Yes	-		-		8.00E-02	I
Toluene-2,5-diamine	95-70-5	No	No	1.80E-01	X	-		2.00E-04	S
Toluenediamine, 2,3-	2687-25-4	No	No	-		-		-	
Toluenediamine, 3,4-	496-72-0	No	No	-		-		-	

Site-specific

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Tetraethyl Dithiopyrophosphate	-		1	0.1	1	-	-	1.36E+09
Tetrafluoroethane, 1,1,1,2-	8.00E+01	I	1	-	1	1.22E+03	2.05E+03	1.36E+09
Tetrahydrothiophene	-		1	-	1	8.24E+03	2.18E+03	1.36E+09
Tetramethylcyclohexane	-		1	-	1	-	-	1.36E+09
Tetryl (Trinitrophenylmethylnitramine)	-		1	0.00065	1	-	-	1.36E+09
Thallic Oxide	-		1	-	1	-	-	1.36E+09
Thallium (I) Nitrate	-		1	-	1	-	-	1.36E+09
Thallium (Soluble Salts)	-		1	-	1	-	-	1.36E+09
Thallium Acetate	-		1	-	1	-	-	1.36E+09
Thallium Carbonate	-		1	-	1	-	-	1.36E+09
Thallium Chloride	-		1	-	1	-	-	1.36E+09
Thallium Selenite	-		1	-	1	-	-	1.36E+09
Thallium Sulfate	-		1	-	1	-	-	1.36E+09
Thiobencarb	-		1	0.1	1	-	-	1.36E+09
Thiodiglycol	-		1	0.0075	1	-	-	1.36E+09
Thiofanox	-		1	0.1	1	-	-	1.36E+09
Thiophanate, Methyl	-		1	0.1	1	-	-	1.36E+09
Thiophene	-		1	-	1	4.18E+03	1.80E+03	1.36E+09
Thiram	-		1	0.1	1	-	-	1.36E+09
Thorium	-		1	-	1	-	-	1.36E+09
Thymol	-		1	0.1	1	-	-	1.36E+09
Tin	-		1	-	1	-	-	1.36E+09
Titanium	-		1	-	1	-	-	1.36E+09
Titanium Tetrachloride	1.00E-04	A	1	-	1	-	-	1.36E+09
Toluene	5.00E+00	I	1	-	1	4.29E+03	8.18E+02	1.36E+09
Toluene-2,5-diamine	-		1	0.1	1	-	-	1.36E+09
Toluenediamine, 2,3-	-		1	0.1	1	-	-	1.36E+09
Toluenediamine, 3,4-	-		1	0.1	1	-	-	1.36E+09

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Tetraethyl Dithiopyrophosphate	-	-	-	-	2.63E+01	1.11E+02	-
Tetrafluoroethane, 1,1,1,2-	-	-	-	-	-	-	8.22E+05
Tetrahydrothiophene	-	-	-	-	-	-	-
Tetramethylcyclohexane	-	-	-	-	-	-	-
Tetryl (Trinitrophenylmethylnitramine)	-	-	-	-	1.05E+02	6.83E+04	-
Thallic Oxide	-	-	-	-	-	-	-
Thallium (I) Nitrate	-	-	-	-	3.69E-01	-	-
Thallium (Soluble Salts)	-	-	-	-	5.26E-01	-	-
Thallium Acetate	-	-	-	-	3.16E-01	-	-
Thallium Carbonate	-	-	-	-	1.05E+00	-	-
Thallium Chloride	-	-	-	-	3.16E-01	-	-
Thallium Selenite	-	-	-	-	-	-	-
Thallium Sulfate	-	-	-	-	1.05E+00	-	-
Thiobencarb	-	-	-	-	5.26E+02	2.22E+03	-
Thiodiglycol	-	-	-	-	3.69E+03	2.07E+05	-
Thiofanox	-	-	-	-	1.58E+01	6.66E+01	-
Thiophanate, Methyl	-	-	-	-	4.21E+03	1.77E+04	-
Thiophene	-	-	-	-	-	-	-
Thiram	-	-	-	-	2.63E+02	1.11E+03	-
Thorium	-	-	-	-	-	-	-
Thymol	-	-	-	-	-	-	-
Tin	-	-	-	-	3.16E+04	-	-
Titanium	-	-	-	-	-	-	-
Titanium Tetrachloride	-	-	-	-	-	-	1.14E+06
Toluene	-	-	-	-	4.21E+03	-	1.81E+05
Toluene-2,5-diamine	2.60E+01	9.24E+01	-	2.03E+01	1.05E+01	4.44E+01	-
Toluenediamine, 2,3-	-	-	-	-	-	-	-
Toluenediamine, 3,4-	-	-	-	-	-	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Tetraethyl Dithiopyrophosphate	2.13E+01	2.81E+02	6.65E+02	-	1.97E+02	2.13E+01 nc
Tetrafluoroethane, 1,1,1,2-	8.22E+05	-	-	8.22E+05	8.22E+05	8.22E+05 sat
Tetrahydrothiophene	-	-	-	-	-	
Tetramethylcyclohexane	-	-	-	-	-	
Tetryl (Trinitrophenylmethylnitramine)	1.05E+02	1.12E+03	4.09E+05	-	1.12E+03	1.05E+02 nc
Thallic Oxide	-	-	-	-	-	
Thallium (I) Nitrate	3.69E-01	3.93E+00	-	-	3.93E+00	3.69E-01 nc
Thallium (Soluble Salts)	5.26E-01	5.62E+00	-	-	5.62E+00	5.26E-01 nc
Thallium Acetate	3.16E-01	3.37E+00	-	-	3.37E+00	3.16E-01 nc
Thallium Carbonate	1.05E+00	1.12E+01	-	-	1.12E+01	1.05E+00 nc
Thallium Chloride	3.16E-01	3.37E+00	-	-	3.37E+00	3.16E-01 nc
Thallium Selenite	-	-	-	-	-	
Thallium Sulfate	1.05E+00	1.12E+01	-	-	1.12E+01	1.05E+00 nc
Thiobencarb	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	4.25E+02 nc
Thiodiglycol	3.62E+03	3.93E+04	1.24E+06	-	3.81E+04	3.62E+03 nc
Thiofanox	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	1.28E+01 nc
Thiophanate, Methyl	3.40E+03	4.49E+04	1.06E+05	-	3.16E+04	3.40E+03 nc
Thiophene	-	-	-	-	-	
Thiram	2.13E+02	2.81E+03	6.65E+03	-	1.97E+03	2.13E+02 nc
Thorium	-	-	-	-	-	
Thymol	-	-	-	-	-	
Tin	3.16E+04	3.37E+05	-	-	3.37E+05	3.16E+04 nc
Titanium	-	-	-	-	-	
Titanium Tetrachloride	1.14E+06	-	-	1.14E+06	1.14E+06	1.14E+06 max
Toluene	4.12E+03	4.49E+04	-	1.81E+05	3.60E+04	4.12E+03 sat
Toluene-2,5-diamine	8.51E+00	1.12E+02	2.66E+02	-	7.90E+01	8.51E+00 nc
Toluenediamine, 2,3-	-	-	-	-	-	
Toluenediamine, 3,4-	-	-	-	-	-	

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Toluidine, o- (Methylaniline, 2-)	95-53-4	No	No	1.60E-02	P	5.10E-05	C	-	
Toluidine, p-	106-49-0	No	No	3.00E-02	P	-		4.00E-03	S
Total Petroleum Hydrocarbons (Aliphatic High)	NA	No	Yes	-		-		3.00E+00	P
Total Petroleum Hydrocarbons (Aliphatic Low)	NA	No	Yes	-		-		-	
Total Petroleum Hydrocarbons (Aliphatic Medium)	NA	No	Yes	-		-		1.00E-02	S
Total Petroleum Hydrocarbons (Aromatic High)	NA	No	No	-		-		4.00E-02	P
Total Petroleum Hydrocarbons (Aromatic Low)	NA	No	Yes	-		-		4.00E-03	P
Total Petroleum Hydrocarbons (Aromatic Medium)	NA	No	Yes	-		-		4.00E-03	P
Toxaphene	8001-35-2	No	No	1.10E+00	I	3.20E-04	I	-	
Tralomethrin	66841-25-6	No	No	-		-		7.50E-03	I
Tri-n-butyltin	688-73-3	No	Yes	-		-		3.00E-04	A
Triacetin	102-76-1	No	No	-		-		8.00E+01	S
Triallate	2303-17-5	No	Yes	-		-		1.30E-02	I
Triasulfuron	82097-50-5	No	No	-		-		1.00E-02	I
Triaziquone	68-76-8	No	No	-		-		-	
Tribromobenzene, 1,2,4-	615-54-3	No	Yes	-		-		5.00E-03	I
Tribromochloromethane	594-15-0	No	Yes	-		-		-	
Tribromodiphenyl Ether	49690-94-0	No	Yes	-		-		-	
Tribromophenol, 2,4,6-	118-79-6	No	No	-		-		-	
Tributyl Phosphate	126-73-8	No	No	9.00E-03	P	-		1.00E-02	P
Tributyltin	56573-85-4	No	Yes	-		-		-	
Tributyltin Compounds	NA	No	No	-		-		3.00E-04	P
Tributyltin chloride	1461-22-9	No	Yes	-		-		-	
Tributyltin fluoride	1983-10-4	No	Yes	-		-		-	
Tributyltin linoleate	24124-25-2	No	Yes	-		-		-	
Tributyltin methacrylate	2155-70-6	No	Yes	-		-		-	

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Toluidine, o- (Methylaniline, 2-)	-		1	0.1	1	-	-	1.36E+09
Toluidine, p-	-		1	0.1	1	-	-	1.36E+09
Total Petroleum Hydrocarbons (Aliphatic High)	-		1	-	1	1.06E+03	3.42E-01	1.36E+09
Total Petroleum Hydrocarbons (Aliphatic Low)	6.00E-01	P	1	-	1	8.29E+02	1.41E+02	1.36E+09
Total Petroleum Hydrocarbons (Aliphatic Medium)	1.00E-01	P	1	-	1	1.04E+03	6.86E+00	1.36E+09
Total Petroleum Hydrocarbons (Aromatic High)	-		1	0.1	1	-	-	1.36E+09
Total Petroleum Hydrocarbons (Aromatic Low)	3.00E-02	P	1	-	1	3.54E+03	1.82E+03	1.36E+09
Total Petroleum Hydrocarbons (Aromatic Medium)	3.00E-03	P	1	-	1	5.24E+04	-	1.36E+09
Toxaphene	-		1	0.1	1	-	-	1.36E+09
Tralomethrin	-		1	0.1	1	-	-	1.36E+09
Tri-n-butyltin	-		1	-	1	3.36E+03	-	1.36E+09
Triacetin	-		1	0.1	1	-	-	1.36E+09
Triallate	-		1	-	1	3.62E+05	-	1.36E+09
Triasulfuron	-		1	0.1	1	-	-	1.36E+09
Triaziquone	-		1	0.1	1	-	-	1.36E+09
Tribromobenzene, 1,2,4-	-		1	-	1	4.83E+04	-	1.36E+09
Tribromochloromethane	-		1	-	1	4.09E+04	-	1.36E+09
Tribromodiphenyl Ether	-		1	-	1	7.79E+05	-	1.36E+09
Tribromophenol, 2,4,6-	-		1	0.1	1	-	-	1.36E+09
Tributyl Phosphate	-		1	0.1	1	-	-	1.36E+09
Tributyltin	-		1	-	1	3.12E+03	-	1.36E+09
Tributyltin Compounds	-		1	0.1	1	-	-	1.36E+09
Tributyltin chloride	-		1	-	1	1.67E+04	1.25E+03	1.36E+09
Tributyltin fluoride	-		1	-	1	3.74E+03	-	1.36E+09
Tributyltin linoleate	-		1	-	1	1.21E+05	-	1.36E+09
Tributyltin methacrylate	-		1	-	1	1.02E+04	-	1.36E+09

Site-specific

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Toluidine, o- (Methylaniline, 2-)	2.92E+02	1.04E+03	6.04E+06	2.28E+02	-	-	-
Toluidine, p-	1.56E+02	5.54E+02	-	1.22E+02	2.11E+02	8.87E+02	-
Total Petroleum Hydrocarbons (Aliphatic High)	-	-	-	-	1.58E+05	-	-
Total Petroleum Hydrocarbons (Aliphatic Low)	-	-	-	-	-	-	4.19E+03
Total Petroleum Hydrocarbons (Aliphatic Medium)	-	-	-	-	5.26E+02	-	8.79E+02
Total Petroleum Hydrocarbons (Aromatic High)	-	-	-	-	2.11E+03	8.87E+03	-
Total Petroleum Hydrocarbons (Aromatic Low)	-	-	-	-	2.11E+02	-	8.94E+02
Total Petroleum Hydrocarbons (Aromatic Medium)	-	-	-	-	2.11E+02	-	1.32E+03
Toxaphene	4.25E+00	1.51E+01	9.63E+05	3.32E+00	-	-	-
Tralomethrin	-	-	-	-	3.95E+02	1.66E+03	-
Tri-n-butyltin	-	-	-	-	1.58E+01	-	-
Triacetin	-	-	-	-	4.21E+06	1.77E+07	-
Triallate	-	-	-	-	6.84E+02	-	-
Triasulfuron	-	-	-	-	5.26E+02	2.22E+03	-
Triaziquone	-	-	-	-	-	-	-
Tribromobenzene, 1,2,4-	-	-	-	-	2.63E+02	-	-
Tribromochloromethane	-	-	-	-	-	-	-
Tribromodiphenyl Ether	-	-	-	-	-	-	-
Tribromophenol, 2,4,6-	-	-	-	-	-	-	-
Tributyl Phosphate	5.20E+02	1.85E+03	-	4.06E+02	5.26E+02	2.22E+03	-
Tributyltin	-	-	-	-	-	-	-
Tributyltin Compounds	-	-	-	-	1.58E+01	6.66E+01	-
Tributyltin chloride	-	-	-	-	-	-	-
Tributyltin fluoride	-	-	-	-	-	-	-
Tributyltin linoleate	-	-	-	-	-	-	-
Tributyltin methacrylate	-	-	-	-	-	-	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Toluidine, o- (Methylaniline, 2-)	-	-	-	-	-	2.28E+02 ca
Toluidine, p-	1.70E+02	2.25E+03	5.32E+03	-	1.58E+03	1.22E+02 ca**
Total Petroleum Hydrocarbons (Aliphatic High)	1.58E+05	1.68E+06	-	-	1.68E+06	1.58E+05 sat
Total Petroleum Hydrocarbons (Aliphatic Low)	4.19E+03	-	-	4.19E+03	4.19E+03	4.19E+03 sat
Total Petroleum Hydrocarbons (Aliphatic Medium)	3.29E+02	5.62E+03	-	8.79E+02	7.60E+02	3.29E+02 sat
Total Petroleum Hydrocarbons (Aromatic High)	1.70E+03	2.25E+04	5.32E+04	-	1.58E+04	1.70E+03 nc
Total Petroleum Hydrocarbons (Aromatic Low)	1.70E+02	2.25E+03	-	8.94E+02	6.39E+02	1.70E+02 nc
Total Petroleum Hydrocarbons (Aromatic Medium)	1.82E+02	2.25E+03	-	1.32E+03	8.33E+02	1.82E+02 nc
Toxaphene	-	-	-	-	-	3.32E+00 ca
Tralomethrin	3.19E+02	4.21E+03	9.97E+03	-	2.96E+03	3.19E+02 nc
Tri-n-butyltin	1.58E+01	1.68E+02	-	-	1.68E+02	1.58E+01 nc
Triacetin	3.40E+06	4.49E+07	1.06E+08	-	3.16E+07	3.40E+06 max
Triallate	6.84E+02	7.30E+03	-	-	7.30E+03	6.84E+02 nc
Triasulfuron	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	4.25E+02 nc
Triaziquone	-	-	-	-	-	
Tribromobenzene, 1,2,4-	2.63E+02	2.81E+03	-	-	2.81E+03	2.63E+02 nc
Tribromochloromethane	-	-	-	-	-	
Tribromodiphenyl Ether	-	-	-	-	-	
Tribromophenol, 2,4,6-	-	-	-	-	-	
Tributyl Phosphate	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	4.06E+02 ca**
Tributyltin	-	-	-	-	-	
Tributyltin Compounds	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	1.28E+01 nc
Tributyltin chloride	-	-	-	-	-	
Tributyltin fluoride	-	-	-	-	-	
Tributyltin linoleate	-	-	-	-	-	
Tributyltin methacrylate	-	-	-	-	-	

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Tributyltin naphthenate	85409-17-2	No	No	-		-		-	
Tributyltin Oxide	56-35-9	No	No	-		-		3.00E-04	I
Tricaine Methanesulfonate	886-86-2	No	No	-		-		-	
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	No	Yes	-		-		3.00E+01	I
Trichloro-2'-hydroxydiphenylether	3380-34-5	No	No	-		-		-	
Trichloroacetic Acid	76-03-9	No	No	7.00E-02	I	-		2.00E-02	I
Trichloroaniline, 2,4,5-	636-30-6	No	No	-		-		-	
Trichloroaniline HCl, 2,4,6-	33663-50-2	No	No	2.90E-02	H	-		-	
Trichloroaniline, 2,4,6-	634-93-5	No	No	7.00E-03	X	-		3.00E-05	S
Trichlorobenzene	12002-48-1	No	Yes	-		-		-	
Trichlorobenzene, 1,2,3-	87-61-6	No	Yes	-		-		8.00E-04	S
Trichlorobenzene, 1,2,4-	120-82-1	No	Yes	2.90E-02	P	-		1.00E-02	I
Trichloroethane, 1,1,1-	71-55-6	No	Yes	-		-		2.00E+00	I
Trichloroethane, 1,1,2-	79-00-5	No	Yes	5.70E-02	I	1.60E-05	I	4.00E-03	I
Trichloroethylene	79-01-6	Yes	Yes	4.60E-02	I	4.10E-06	I	5.00E-04	I
Trichlorofluoromethane	75-69-4	No	Yes	-		-		3.00E-01	I
Trichlorophenol, 2,4,5-	95-95-4	No	No	-		-		1.00E-01	I
Trichlorophenol, 2,4,6-	88-06-2	No	No	1.10E-02	I	3.10E-06	I	1.00E-03	P
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	No	No	-		-		8.00E-03	I
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	No	No	-		-		1.00E-02	I
Trichloropropane, 1,1,2-	598-77-6	No	Yes	-		-		5.00E-03	I
Trichloropropane, 1,2,3-	96-18-4	Yes	Yes	3.00E+01	I	-		4.00E-03	I
Trichloropropene, 1,2,3-	96-19-5	No	Yes	-		-		3.00E-03	S
Trichlorotoluene, 2,3,6-	2077-46-5	No	Yes	-		-		-	
Trichlorotoluene, alpha 2,6-	2014-83-7	No	Yes	-		-		-	
Triclorophenols (total)	NA	No	No	-		-		-	
Tricresyl Phosphate (TCP)	1330-78-5	No	No	-		-		2.00E-02	A
Tridiphane	58138-08-2	No	No	-		-		3.00E-03	I

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Tributyltin naphthenate	-		1	0.1	1	-	-	1.36E+09
Tributyltin Oxide	-		1	0.1	1	-	-	1.36E+09
Tricaine Methanesulfonate	-		1	0.1	1	-	-	1.36E+09
Trichloro-1,2,2-trifluoroethane, 1,1,2-	3.00E+01	H	1	-	1	1.29E+03	9.10E+02	1.36E+09
Trichloro-2'-hydroxydiphenylether	-		1	0.1	1	-	-	1.36E+09
Trichloroacetic Acid	-		1	0.1	1	-	-	1.36E+09
Trichloroaniline, 2,4,5-	-		1	0.1	1	-	-	1.36E+09
Trichloroaniline HCl, 2,4,6-	-		1	0.1	1	-	-	1.36E+09
Trichloroaniline, 2,4,6-	-		1	0.1	1	-	-	1.36E+09
Trichlorobenzene	-		1	-	1	3.46E+04	-	1.36E+09
Trichlorobenzene, 1,2,3-	-		1	-	1	3.22E+04	-	1.36E+09
Trichlorobenzene, 1,2,4-	2.00E-03	P	1	-	1	2.99E+04	4.04E+02	1.36E+09
Trichloroethane, 1,1,1-	5.00E+00	I	1	-	1	1.65E+03	6.40E+02	1.36E+09
Trichloroethane, 1,1,2-	2.00E-04	S	1	-	1	7.22E+03	2.16E+03	1.36E+09
Trichloroethylene	2.00E-03	I	1	-	1	2.21E+03	6.92E+02	1.36E+09
Trichlorofluoromethane	-		1	-	1	1.04E+03	1.23E+03	1.36E+09
Trichlorophenol, 2,4,5-	-		1	0.1	1	-	-	1.36E+09
Trichlorophenol, 2,4,6-	-		1	0.1	1	-	-	1.36E+09
Trichlorophenoxypropionic acid, -2,4,5	-		1	0.1	1	-	-	1.36E+09
Trichlorophenoxyacetic Acid, 2,4,5-	-		1	0.1	1	-	-	1.36E+09
Trichloropropane, 1,1,2-	-		1	-	1	1.50E+04	1.28E+03	1.36E+09
Trichloropropane, 1,2,3-	3.00E-04	I	1	-	1	1.57E+04	1.40E+03	1.36E+09
Trichloropropene, 1,2,3-	3.00E-04	P	1	-	1	2.34E+03	3.11E+02	1.36E+09
Trichlorotoluene, 2,3,6-	-		1	-	1	4.22E+04	-	1.36E+09
Trichlorotoluene, alpha 2,6-	-		1	-	1	7.01E+04	-	1.36E+09
Triclorophenols (total)	-		1	0.1	1	-	-	1.36E+09
Tricresyl Phosphate (TCP)	-		1	0.1	1	-	-	1.36E+09
Tridiphane	-		1	0.1	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Tributyltin naphthenate	-	-	-	-	-	-	-
Tributyltin Oxide	-	-	-	-	1.58E+01	6.66E+01	-
Tricaine Methanesulfonate	-	-	-	-	-	-	-
Trichloro-1,2,2-trifluoroethane, 1,1,2-	-	-	-	-	1.58E+06	-	3.25E+05
Trichloro-2'-hydroxydiphenylether	-	-	-	-	-	-	-
Trichloroacetic Acid	6.68E+01	2.38E+02	-	5.22E+01	1.05E+03	4.44E+03	-
Trichloroaniline, 2,4,5-	-	-	-	-	-	-	-
Trichloroaniline HCl, 2,4,6-	1.61E+02	5.74E+02	-	1.26E+02	-	-	-
Trichloroaniline, 2,4,6-	6.68E+02	2.38E+03	-	5.22E+02	1.58E+00	6.66E+00	-
Trichlorobenzene	-	-	-	-	-	-	-
Trichlorobenzene, 1,2,3-	-	-	-	-	4.21E+01	-	-
Trichlorobenzene, 1,2,4-	1.61E+02	-	-	1.61E+02	5.26E+02	-	5.04E+02
Trichloroethane, 1,1,1-	-	-	-	-	1.05E+05	-	6.94E+04
Trichloroethane, 1,1,2-	8.21E+01	-	1.02E+02	4.55E+01	2.11E+02	-	1.22E+01
Trichloroethylene	5.91E+01	-	8.53E+01	3.49E+01	2.63E+01	-	3.72E+01
Trichlorofluoromethane	-	-	-	-	1.58E+04	-	-
Trichlorophenol, 2,4,5-	-	-	-	-	5.26E+03	2.22E+04	-
Trichlorophenol, 2,4,6-	4.25E+02	1.51E+03	9.94E+07	3.32E+02	5.26E+01	2.22E+02	-
Trichlorophenoxypropionic acid, -2,4,5	-	-	-	-	4.21E+02	1.77E+03	-
Trichlorophenoxyacetic Acid, 2,4,5-	-	-	-	-	5.26E+02	2.22E+03	-
Trichloropropane, 1,1,2-	-	-	-	-	2.63E+02	-	-
Trichloropropane, 1,2,3-	3.44E-02	-	-	3.44E-02	2.11E+02	-	3.97E+01
Trichloropropene, 1,2,3-	-	-	-	-	1.58E+02	-	5.91E+00
Trichlorotoluene, 2,3,6-	-	-	-	-	-	-	-
Trichlorotoluene, alpha 2,6-	-	-	-	-	-	-	-
Triclorophenols (total)	-	-	-	-	-	-	-
Tricresyl Phosphate (TCP)	-	-	-	-	1.05E+03	4.44E+03	-
Tridiphane	-	-	-	-	1.58E+02	6.66E+02	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Tributyltin naphthenate	-	-	-	-	-	
Tributyltin Oxide	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	1.28E+01 nc
Tricaine Methanesulfonate	-	-	-	-	-	
Trichloro-1,2,2-trifluoroethane, 1,1,2-	2.69E+05	1.68E+07	-	3.25E+05	3.19E+05	2.69E+05 sat
Trichloro-2'-hydroxydiphenylether	-	-	-	-	-	
Trichloroacetic Acid	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	5.22E+01 ca*
Trichloroaniline, 2,4,5-	-	-	-	-	-	
Trichloroaniline HCl, 2,4,6-	-	-	-	-	-	1.26E+02 ca
Trichloroaniline, 2,4,6-	1.28E+00	1.68E+01	3.99E+01	-	1.18E+01	1.28E+00 nc
Trichlorobenzene	-	-	-	-	-	
Trichlorobenzene, 1,2,3-	4.21E+01	4.49E+02	-	-	4.49E+02	4.21E+01 nc
Trichlorobenzene, 1,2,4-	2.57E+02	5.62E+03	-	5.04E+02	4.62E+02	1.61E+02 ca**
Trichloroethane, 1,1,1-	4.18E+04	1.12E+06	-	6.94E+04	6.54E+04	4.18E+04 sat
Trichloroethane, 1,1,2-	1.15E+01	2.25E+03	-	1.22E+01	1.21E+01	1.15E+01 nc
Trichloroethylene	1.54E+01	2.81E+02	-	3.72E+01	3.29E+01	1.54E+01 nc
Trichlorofluoromethane	1.58E+04	1.68E+05	-	-	1.68E+05	1.58E+04 sat
Trichlorophenol, 2,4,5-	4.25E+03	5.62E+04	1.33E+05	-	3.95E+04	4.25E+03 nc
Trichlorophenol, 2,4,6-	4.25E+01	5.62E+02	1.33E+03	-	3.95E+02	4.25E+01 nc
Trichlorophenoxypropionic acid, -2,4,5	3.40E+02	4.49E+03	1.06E+04	-	3.16E+03	3.40E+02 nc
Trichlorophenoxyacetic Acid, 2,4,5-	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	4.25E+02 nc
Trichloropropane, 1,1,2-	2.63E+02	2.81E+03	-	-	2.81E+03	2.63E+02 nc
Trichloropropane, 1,2,3-	3.34E+01	2.25E+03	-	3.97E+01	3.90E+01	3.44E-02 ca
Trichloropropene, 1,2,3-	5.70E+00	1.68E+03	-	5.91E+00	5.89E+00	5.70E+00 nc
Trichlorotoluene, 2,3,6-	-	-	-	-	-	
Trichlorotoluene, alpha 2,6-	-	-	-	-	-	
Triclorophenols (total)	-	-	-	-	-	
Tricresyl Phosphate (TCP)	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Tridiphane	1.28E+02	1.68E+03	3.99E+03	-	1.18E+03	1.28E+02 nc

Site-specific

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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Tridymite	15468-32-3	No	No	-		-		-	
Triethyl phosphorothioate [O,O,O-]	126-68-1	No	Yes	-		-		-	
Triethyl Lead	5224-23-7	No	Yes	-		-		-	
Triethylamine	121-44-8	No	Yes	-		-		-	
Triethylene Glycol	112-27-6	No	No	-		-		2.00E+00	P
Trifluoroethane, 1,1,1-	420-46-2	No	Yes	-		-		-	
Trifluralin	1582-09-8	No	Yes	7.70E-03	I	-		7.50E-03	I
Trimethyl Lead	7442-13-9	No	Yes	-		-		-	
Trimethyl Phosphate	512-56-1	No	No	2.00E-02	P	-		1.00E-02	P
Trimethyl-4-Propenylnaphthalene, 1,2,3-	26137-53-1	No	Yes	-		-		-	
Trimethylbenzene, 1,2,3-	526-73-8	No	Yes	-		-		-	
Trimethylbenzene, 1,2,4-	95-63-6	No	Yes	-		-		-	
Trimethylbenzene, 1,3,5-	108-67-8	No	Yes	-		-		1.00E-02	S
Trimethylethyl Lead	1762-26-1	No	Yes	-		-		-	
Trimethylpentane, 2,2,4-	540-84-1	No	Yes	-		-		-	
Trimethylpentene, 2,4,4-	25167-70-8	No	Yes	-		-		1.00E-02	S
Trinitrobenzene, 1,3,5-	99-35-4	No	No	-		-		3.00E-02	I
Trinitrotoluene, 2,4,6-	118-96-7	No	No	3.00E-02	I	-		5.00E-04	I
Triphenylphosphine Oxide	791-28-6	No	No	-		-		2.00E-02	P
Triphenyltin	668-34-8	No	Yes	-		-		-	
Tripropyl Lead	6618-03-7	No	Yes	-		-		-	
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8	No	No	-		-		2.00E-02	A
Tris(1-chloro-2-propyl)phosphate	13674-84-5	No	No	-		-		1.00E-02	S
Tris(2,3-dibromopropyl)phosphate	126-72-7	No	Yes	2.30E+00	C	6.60E-04	C	-	
Tris(2-chloroethyl)phosphate	115-96-8	No	No	2.00E-02	P	-		7.00E-03	P
Tris(2-ethylhexyl)phosphate	78-42-2	No	No	3.20E-03	P	-		1.00E-01	P

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Tridymite	-		1	-	1	-	-	1.36E+09
Triethyl phosphorothioate [O,O,O-]	-		1	-	1	2.81E+04	2.33E+02	1.36E+09
Triethyl Lead	-		1	-	1	1.30E+03	5.67E+03	1.36E+09
Triethylamine	7.00E-03	I	1	-	1	1.58E+04	2.79E+04	1.36E+09
Triethylene Glycol	-		1	0.1	1	-	-	1.36E+09
Trifluoroethane, 1,1,1-	2.00E+01	P	1	-	1	7.12E+02	4.81E+03	1.36E+09
Trifluralin	-		1	-	1	5.13E+05	-	1.36E+09
Trimethyl Lead	-		1	-	1	1.12E+03	3.08E+02	1.36E+09
Trimethyl Phosphate	-		1	0.1	1	-	-	1.36E+09
Trimethyl-4-Propenylnaphthalene, 1,2,3-	-		1	-	1	5.05E+05	-	1.36E+09
Trimethylbenzene, 1,2,3-	5.00E-03	P	1	-	1	9.44E+03	2.93E+02	1.36E+09
Trimethylbenzene, 1,2,4-	7.00E-03	P	1	-	1	7.91E+03	2.19E+02	1.36E+09
Trimethylbenzene, 1,3,5-	-		1	-	1	6.61E+03	1.82E+02	1.36E+09
Trimethylethyl Lead	-		1	-	1	1.44E+03	2.56E+01	1.36E+09
Trimethylpentane, 2,2,4-	-		1	-	1	9.37E+02	6.12E+01	1.36E+09
Trimethylpentene, 2,4,4-	-		1	-	1	1.00E+03	2.96E+01	1.36E+09
Trinitrobenzene, 1,3,5-	-		1	0.019	1	-	-	1.36E+09
Trinitrotoluene, 2,4,6-	-		1	0.032	1	-	-	1.36E+09
Triphenylphosphine Oxide	-		1	0.1	1	-	-	1.36E+09
Triphenyltin	-		1	-	1	2.02E+06	-	1.36E+09
Tripropyl Lead	-		1	-	1	1.67E+03	3.08E+00	1.36E+09
Tris(1,3-Dichloro-2-propyl) Phosphate	-		1	0.1	1	-	-	1.36E+09
Tris(1-chloro-2-propyl)phosphate	-		1	0.1	1	-	-	1.36E+09
Tris(2,3-dibromopropyl)phosphate	-		1	-	1	9.03E+05	4.67E+02	1.36E+09
Tris(2-chloroethyl)phosphate	-		1	0.1	1	-	-	1.36E+09
Tris(2-ethylhexyl)phosphate	-		1	0.1	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Tridymite	-	-	-	-	-	-	-
Triethyl phosphorothioate [O,O,O-]	-	-	-	-	-	-	-
Triethyl Lead	-	-	-	-	-	-	-
Triethylamine	-	-	-	-	-	-	9.32E+02
Triethylene Glycol	-	-	-	-	1.05E+05	4.44E+05	-
Trifluoroethane, 1,1,1-	-	-	-	-	-	-	1.20E+05
Trifluralin	6.08E+02	-	-	6.08E+02	3.95E+02	-	-
Trimethyl Lead	-	-	-	-	-	-	-
Trimethyl Phosphate	2.34E+02	8.32E+02	-	1.83E+02	5.26E+02	2.22E+03	-
Trimethyl-4-Propenylnaphthalene, 1,2,3-	-	-	-	-	-	-	-
Trimethylbenzene, 1,2,3-	-	-	-	-	-	-	3.97E+02
Trimethylbenzene, 1,2,4-	-	-	-	-	-	-	4.67E+02
Trimethylbenzene, 1,3,5-	-	-	-	-	5.26E+02	-	-
Trimethylethyl Lead	-	-	-	-	-	-	-
Trimethylpentane, 2,2,4-	-	-	-	-	-	-	-
Trimethylpentene, 2,4,4-	-	-	-	-	5.26E+02	-	-
Trinitrobenzene, 1,3,5-	-	-	-	-	1.58E+03	3.50E+04	-
Trinitrotoluene, 2,4,6-	1.56E+02	1.73E+03	-	1.43E+02	2.63E+01	3.47E+02	-
Triphenylphosphine Oxide	-	-	-	-	1.05E+03	4.44E+03	-
Triphenyltin	-	-	-	-	-	-	-
Tripropyl Lead	-	-	-	-	-	-	-
Tris(1,3-Dichloro-2-propyl) Phosphate	-	-	-	-	1.05E+03	4.44E+03	-
Tris(1-chloro-2-propyl)phosphate	-	-	-	-	5.26E+02	2.22E+03	-
Tris(2,3-dibromopropyl)phosphate	2.03E+00	-	3.10E+02	2.02E+00	-	-	-
Tris(2-chloroethyl)phosphate	2.34E+02	8.32E+02	-	1.83E+02	3.69E+02	1.55E+03	-
Tris(2-ethylhexyl)phosphate	1.46E+03	5.20E+03	-	1.14E+03	5.26E+03	2.22E+04	-

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Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Tridymite	-	-	-	-	-	
Triethyl phosphorothioate [O,O,O-]	-	-	-	-	-	
Triethyl Lead	-	-	-	-	-	
Triethylamine	9.32E+02	-	-	9.32E+02	9.32E+02	9.32E+02 nc
Triethylene Glycol	8.51E+04	1.12E+06	2.66E+06	-	7.90E+05	8.51E+04 nc
Trifluoroethane, 1,1,1-	1.20E+05	-	-	1.20E+05	1.20E+05	1.20E+05 sat
Trifluralin	3.95E+02	4.21E+03	-	-	4.21E+03	3.95E+02 nc
Trimethyl Lead	-	-	-	-	-	
Trimethyl Phosphate	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	1.83E+02 ca**
Trimethyl-4-Propenylnaphthalene, 1,2,3-	-	-	-	-	-	
Trimethylbenzene, 1,2,3-	3.97E+02	-	-	3.97E+02	3.97E+02	3.97E+02 sat
Trimethylbenzene, 1,2,4-	4.67E+02	-	-	4.67E+02	4.67E+02	4.67E+02 sat
Trimethylbenzene, 1,3,5-	5.26E+02	5.62E+03	-	-	5.62E+03	5.26E+02 sat
Trimethylethyl Lead	-	-	-	-	-	
Trimethylpentane, 2,2,4-	-	-	-	-	-	
Trimethylpentene, 2,4,4-	5.26E+02	5.62E+03	-	-	5.62E+03	5.26E+02 sat
Trinitrobenzene, 1,3,5-	1.51E+03	1.68E+04	2.10E+05	-	1.56E+04	1.51E+03 nc
Trinitrotoluene, 2,4,6-	2.45E+01	2.81E+02	2.08E+03	-	2.47E+02	2.45E+01 nc
Triphenylphosphine Oxide	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Triphenyltin	-	-	-	-	-	
Tripropyl Lead	-	-	-	-	-	
Tris(1,3-Dichloro-2-propyl) Phosphate	8.51E+02	1.12E+04	2.66E+04	-	7.90E+03	8.51E+02 nc
Tris(1-chloro-2-propyl)phosphate	4.25E+02	5.62E+03	1.33E+04	-	3.95E+03	4.25E+02 nc
Tris(2,3-dibromopropyl)phosphate	-	-	-	-	-	2.02E+00 ca
Tris(2-chloroethyl)phosphate	2.98E+02	3.93E+03	9.31E+03	-	2.76E+03	1.83E+02 ca**
Tris(2-ethylhexyl)phosphate	4.25E+03	5.62E+04	1.33E+05	-	3.95E+04	1.14E+03 ca**

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day) $^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m ^{3})$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref
Trisbutoxyethyl Phosphate	78-51-3	No	No	-		-		-	
Trithion	786-19-6	No	No	-		-		-	
Tungsten	7440-33-7	No	No	-		-		8.00E-04	P
Uranium (Soluble Salts)	NA	No	No	-		-		3.00E-03	I
Urea	57-13-6	No	No	-		-		-	
Urethane	51-79-6	Yes	No	1.00E+00	C	2.90E-04	C	-	
Vanadium Pentoxide	1314-62-1	No	No	-		8.30E-03	P	9.00E-03	I
Vanadium Sulfate	36907-42-3	No	No	-		-		-	
Vanadium and Compounds	7440-62-2	No	No	-		-		5.04E-03	S
Vanadyl Sulfate	27774-13-6	No	No	-		-		-	
Vernolate	1929-77-7	No	Yes	-		-		1.00E-03	I
Vinclozolin	50471-44-8	No	No	-		-		2.50E-02	I
Vinyl Acetate	108-05-4	No	Yes	-		-		1.00E+00	H
Vinyl Bromide	593-60-2	No	Yes	-		3.20E-05	H	-	
Vinyl Chloride	75-01-4	Yes	Yes	7.20E-01	I	4.40E-06	I	3.00E-03	I
Warfarin	81-81-2	No	No	-		-		3.00E-04	I
Xylene, P-	106-42-3	No	Yes	-		-		2.00E-01	S
Xylene, m-	108-38-3	No	Yes	-		-		2.00E-01	S
Xylene, o-	95-47-6	No	Yes	-		-		2.00E-01	S
Xylenes	1330-20-7	No	Yes	-		-		2.00E-01	I
Ytterbium	7440-64-4	No	No	-		-		-	
Yttrium	7440-65-5	No	No	-		-		-	
Zineb	12122-67-7	No	No	-		-		5.00E-02	I
Zirconium	7440-67-7	No	No	-		-		8.00E-05	S
Zinc Phosphide	1314-84-7	No	No	-		-		3.00E-04	I
Zinc and Compounds	7440-66-6	No	No	-		-		3.00E-01	I

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Chemical	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)
Trisbutoxyethyl Phosphate	-		1	0.1	1	-	-	1.36E+09
Trithion	-		1	0.1	1	-	-	1.36E+09
Tungsten	-		1	-	1	-	-	1.36E+09
Uranium (Soluble Salts)	4.00E-05	A	1	-	1	-	-	1.36E+09
Urea	-		1	0.1	1	-	-	1.36E+09
Urethane	-		1	0.1	1	-	-	1.36E+09
Vanadium Pentoxide	7.00E-06	P	0.026	-	1	-	-	1.36E+09
Vanadium Sulfate	-		0.026	-	1	-	-	1.36E+09
Vanadium and Compounds	1.00E-04	A	0.026	-	1	-	-	1.36E+09
Vanadyl Sulfate	-		1	-	1	-	-	1.36E+09
Vernolate	-		1	-	1	1.23E+05	-	1.36E+09
Vinclozolin	-		1	0.1	1	-	-	1.36E+09
Vinyl Acetate	2.00E-01	I	1	-	1	4.40E+03	2.75E+03	1.36E+09
Vinyl Bromide	3.00E-03	I	1	-	1	1.37E+03	2.47E+03	1.36E+09
Vinyl Chloride	1.00E-01	I	1	-	1	9.56E+02	3.92E+03	1.36E+09
Warfarin	-		1	0.1	1	-	-	1.36E+09
Xylene, P-	1.00E-01	S	1	-	1	5.58E+03	3.90E+02	1.36E+09
Xylene, m-	1.00E-01	S	1	-	1	5.47E+03	3.88E+02	1.36E+09
Xylene, o-	1.00E-01	S	1	-	1	6.46E+03	4.34E+02	1.36E+09
Xylenes	1.00E-01	I	1	-	1	5.74E+03	2.60E+02	1.36E+09
Ytterbium	-		1	-	1	-	-	1.36E+09
Yttrium	-		1	-	1	-	-	1.36E+09
Zineb	-		1	0.1	1	-	-	1.36E+09
Zirconium	-		1	-	1	-	-	1.36E+09
Zinc Phosphide	-		1	-	1	-	-	1.36E+09
Zinc and Compounds	-		1	-	1	-	-	1.36E+09

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Chemical	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)
Trisbutoxyethyl Phosphate	-	-	-	-	-	-	-
Trithion	-	-	-	-	-	-	-
Tungsten	-	-	-	-	4.21E+01	-	-
Uranium (Soluble Salts)	-	-	-	-	1.58E+02	-	4.58E+05
Urea	-	-	-	-	-	-	-
Urethane	1.03E+00	4.02E+00	3.84E+05	8.20E-01	-	-	-
Vanadium Pentoxide	-	-	3.71E+04	3.71E+04	4.74E+02	-	8.01E+04
Vanadium Sulfate	-	-	-	-	-	-	-
Vanadium and Compounds	-	-	-	-	2.65E+02	-	1.14E+06
Vanadyl Sulfate	-	-	-	-	-	-	-
Vernolate	-	-	-	-	5.26E+01	-	-
Vinclozolin	-	-	-	-	1.32E+03	5.55E+03	-
Vinyl Acetate	-	-	-	-	5.26E+04	-	7.41E+03
Vinyl Bromide	-	-	9.70E+00	9.70E+00	-	-	3.46E+01
Vinyl Chloride	1.03E-01	-	2.16E-01	6.96E-02	1.58E+02	-	8.05E+02
Warfarin	-	-	-	-	1.58E+01	6.66E+01	-
Xylene, P-	-	-	-	-	1.05E+04	-	4.70E+03
Xylene, m-	-	-	-	-	1.05E+04	-	4.61E+03
Xylene, o-	-	-	-	-	1.05E+04	-	5.44E+03
Xylenes	-	-	-	-	1.05E+04	-	4.83E+03
Ytterbium	-	-	-	-	-	-	-
Yttrium	-	-	-	-	-	-	-
Zineb	-	-	-	-	2.63E+03	1.11E+04	-
Zirconium	-	-	-	-	4.21E+00	-	-
Zinc Phosphide	-	-	-	-	1.58E+01	-	-
Zinc and Compounds	-	-	-	-	1.58E+04	-	-

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
Trisbutoxyethyl Phosphate	-	-	-	-	-	
Trithion	-	-	-	-	-	
Tungsten	4.21E+01	4.49E+02	-	-	4.49E+02	4.21E+01 nc
Uranium (Soluble Salts)	1.58E+02	1.68E+03	-	4.58E+05	1.68E+03	1.58E+02 nc
Urea	-	-	-	-	-	
Urethane	-	-	-	-	-	8.20E-01 ca
Vanadium Pentoxide	4.71E+02	5.05E+03	-	8.01E+04	4.75E+03	4.71E+02 nc
Vanadium Sulfate	-	-	-	-	-	
Vanadium and Compounds	2.65E+02	2.83E+03	-	1.14E+06	2.82E+03	2.65E+02 nc
Vanadyl Sulfate	-	-	-	-	-	
Vernolate	5.26E+01	5.62E+02	-	-	5.62E+02	5.26E+01 nc
Vinclozolin	1.06E+03	1.40E+04	3.32E+04	-	9.87E+03	1.06E+03 nc
Vinyl Acetate	6.49E+03	5.62E+05	-	7.41E+03	7.31E+03	6.49E+03 sat
Vinyl Bromide	3.46E+01	-	-	3.46E+01	3.46E+01	9.70E+00 ca**
Vinyl Chloride	1.32E+02	1.68E+03	-	8.05E+02	5.45E+02	6.96E-02 ca
Warfarin	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	1.28E+01 nc
Xylene, P-	3.25E+03	1.12E+05	-	4.70E+03	4.51E+03	3.25E+03 sat
Xylene, m-	3.21E+03	1.12E+05	-	4.61E+03	4.43E+03	3.21E+03 sat
Xylene, o-	3.59E+03	1.12E+05	-	5.44E+03	5.19E+03	3.59E+03 sat
Xylenes	3.31E+03	1.12E+05	-	4.83E+03	4.63E+03	3.31E+03 sat
Ytterbium	-	-	-	-	-	
Yttrium	-	-	-	-	-	
Zineb	2.13E+03	2.81E+04	6.65E+04	-	1.97E+04	2.13E+03 nc
Zirconium	4.21E+00	4.49E+01	-	-	4.49E+01	4.21E+00 nc
Zinc Phosphide	1.58E+01	1.68E+02	-	-	1.68E+02	1.58E+01 nc
Zinc and Compounds	1.58E+04	1.68E+05	-	-	1.68E+05	1.58E+04 nc

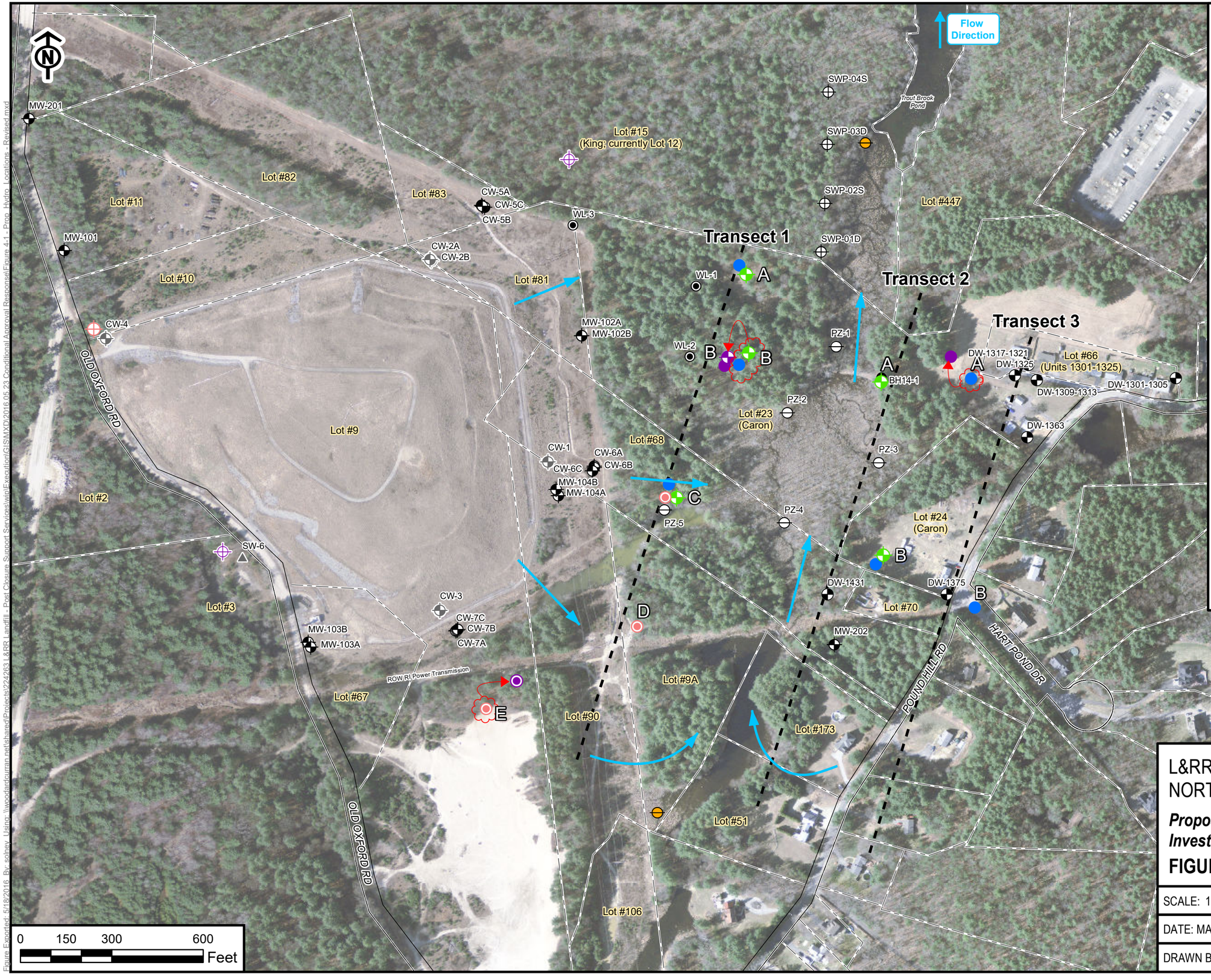
ATTACHMENT 2: DATA VALIDATION LEVELS AND MODIFICATIONS

Table A-2: Data Validation Levels and Modifications

Operable Unit 2 (OU 2) - Remedial Investigation/Feasibility Study (RI/FS)

L&RR Superfund Site, North Smithfield, Rhode Island

No Change	*Referred to as Modified Tier 1 Plus in the February 25th QAPP Version*	*Revised data validation level*	*No Change*
Tier 1 Validation	**Tier 1 Plus Validation**	**Modified Tier I Plus Validation**	**Tier 2 Validation**
Data completeness check	Data completeness check	Data completeness check	Data completeness check
Holding times	Holding times	Holding times	Holding times
Sample preservation	Sample preservation	Sample preservation	Sample preservation
	Blank results	Blank results	Blank results.
	Surrogate recoveries	Surrogate recoveries (organics only)	Surrogate recoveries
	Matrix spike and matrix spike duplicate results	Matrix spike and matrix spike duplicate results	Matrix spike and matrix spike duplicate results
	Field duplicates	Field duplicates	Field duplicates
	Laboratory control sample results	LCS and LCS duplicate results	Laboratory control sample results
	Internal standard results		Internal standard results
	Gas Chromatograph/Mass Spectrophotometer (GC/MS) tuning results		Gas Chromatograph/Mass Spectrophotometer (GC/MS) tuning results
	Inductively Coupled Plasma (ICP)/MS tuning results (metals)		Inductively Coupled Plasma (ICP)/MS tuning results (metals)
	Interelement interferences on metals concentrations		Interelement interferences on metals concentrations
	Serial dilution results (metals)		Serial dilution results (metals)
	Initial and continuing calibration results		Initial and continuing calibration results
			Raw data



Legend

- Borehole
- Geoprobe Groundwater
- Monitoring Well
- Piezometer
- Residential Well
- Waterloo Profile
- Abandoned Monitoring Well
- Historic Surface Water Location
- Transects
- Interpreted Parcel Boundaries
- Inferred Groundwater Flow Direction in Shallow Overburden

Proposed Investigation Locations

- Waterloo^{APS} Groundwater Profile Location *(hydraulic conductivity and discrete groundwater samples)*
- Overburden Monitoring Well/Couplet *(select locations with wells screened in intermediate and deep overburden depending on overburden thickness)*
- Bedrock Borehole *(depth based on packer sampling results, and possible multi-level system)*
- Nested Piezometers *(select locations for evaluation of groundwater/surface water hydraulics)*
- Discrete Groundwater Sampling Location *(discrete groundwater samples from select depth intervals)*
- Locations colored purple indicate proposed relocation of select locations based on RIDEM Comments to the Interim Final Work Plan.

Notes:
1. All locations as shown are approximate and subject to change.
2. Parcel boundaries interpretted from May 2012 Existing Site Plan (Drawing C-01) and the Town of North Smithfield (November 2013) and may not reflect on-the-ground accuracy.
3. All data displayed in NAD83 RI State Plane and NAVD88
4. Orthophotography from USGS, April 2014.
5. Groundwater flow direction in shallow overburden inferred from gauging during landfill post-closure monitoring. Interpreted groundwater flow direction southeast of the landfill based on Friesz, P.J., 2004, Delineation of areas contributing to recharge to selected public-supply wells in glacial valley-fill and wetland settings, Rhode Island: U.S. Geological Survey Scientific Investigations Report 2004-5070, Figure 16.
6. Proposed boring locations circled in red represent locations presented in the Interim Final RI/FS Work Plan document that have been relocated based on the results of the January 2016 geophysical resistivity survey and RIDEM Comments.
7. Proposed investigation location at Transect 3, location B will be advanced at the end of the hydrogeological investigation program, if necessary, based upon observations and analytical results obtained at proposed location Transect 2, location B.

L&RR SUPERFUND SITE
NORTH SMITHFIELD, RHODE ISLAND

Proposed Hydrogeological Investigation Locations (Revised)

FIGURE 4-1

WOODARD &CURRAN

SCALE: 1 " = 300 '	RI/FS Workplan
DATE: MAY 2016	PROJECT #: 224263.5G
DRAWN BY: SMO	DOC: Figure 4-1 - Prop_Hydro_Locations - Revised.mxd

ATTACHMENT 3: SOLINST CMT MULTILEVEL SYSTEM MODEL 403 DATA SHEET

CMT Multilevel System*

Model 403

This multilevel system is reliable, easy to install and inexpensive. It provides site assessors with a better understanding of three-dimensional groundwater flow and the distribution of contaminants in the subsurface. Remediation strategies can then be targeted more precisely, focusing efforts in the most effective manner.

The CMT Multilevel System makes the accurate monitoring of contaminant plumes much more affordable. It provides detailed vertical as well as horizontal data. Monitoring zones are set where needed and the single tube design allows reliable seals between zones.

Two systems are available. The 1.7" (43 mm) OD polyethylene tubing, segmented into seven channels, allows groundwater monitoring at up to 7 depth-discrete zones. The 3-Channel System uses the same material and construction, but it is only 1.1" (28 mm) in diameter. This narrow tube was developed for smaller diameter installations, especially direct push where the annulus for seal placement is narrow.

Construction of CMT ports in a 7-Channel system installed in Silsoe, England.

Advantages of Multilevel Systems

- Provide the most accurate 3-D assessment of a site
- Vital to understanding vertical contaminant distribution
- Allow documentation of changes in the concentration and delineation of contaminant plumes
- Low cost compared to multiple individual wells
- Minimize site disturbance

Research has shown that contaminant plumes are often thin and highly stratified. It has also been documented that traditional monitoring wells, with long screened intervals blend the groundwater over the entire length of the screen**. This can mask the true contaminant concentrations and distribution. Multilevel wells with short screened intervals overcome this problem. This high-resolution data gives unprecedented definition of the subsurface contamination, resulting in more effective and less expensive remediation. Water quality data from short-screened wells yield high quality, defensible data.

Applications

- Identify vertical as well as horizontal contaminant distribution with transect monitoring
- Ideal for shallow wells in high water table environments
- Multilevel water sampling and level monitoring in unconsolidated soils or bedrock
- Dewatering impact assessments at construction & mining sites
- Mass transport calculations and mass flux estimation
- Monitoring of natural attenuation or remediation processes, and documentation of its effectiveness
- VOC, MTBE and Perchlorate monitoring at NAPL sites
- Determination of the best location for reactive barrier walls, the Waterloo Emitter and other remediation methodologies
- Vapor monitoring with special wellhead seals
- Helps optimize design and performance assessment of remedial options

***Elci et al (2001). Implications of observed and simulated ambient flow in monitoring well. Ground Water 39, no. 6: 853-862*

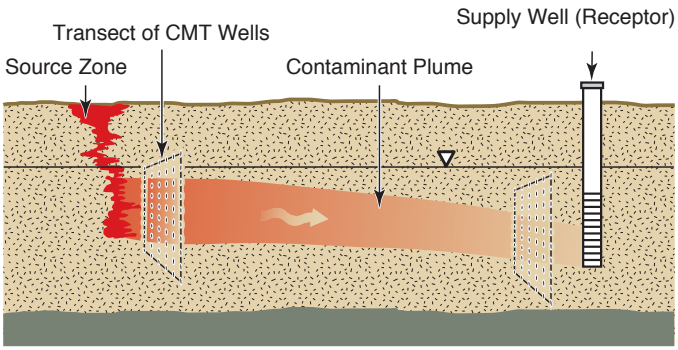
Multilevel Monitoring is Essential

Multilevels provide the most reliable, detailed data for accurate 3-D site assessment. Important advantages include:

Eliminates contaminant mixing in long screened wells – which averages out heads and contaminants, masks narrow zones of contamination and vertical variations, underestimates the extent and concentration levels due to dilution. Multilevels monitor discrete intervals.

Prevents biases due to ambient flow – cross communication of contaminants can occur when different zones in a borehole are not isolated. Properly sealed multilevels avoid ambient flow within a well.

Provides data for Mass Flux Calculations – Calculating the contaminant concentration and flow rate helps determine the maximum contaminant concentration and risk to receptors. A transect of multilevels across the groundwater flow path provides data for mass flux calculations.



CMT Transects for Mass Flux Assessment

Allows optimized remediation design – Using data from multilevels to accurately define the thickness, concentration variations and extent of a plume.

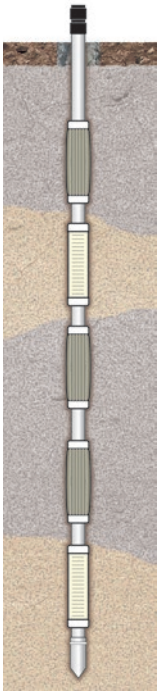
Saves Cost – through reduced permitting and drilling costs; and because narrow tubes allow smaller purge volumes, reduced disposal costs, efficient low flow sampling and rapid response to pressure changes, all reduce field time.

Advantages of the CMT Multilevel System

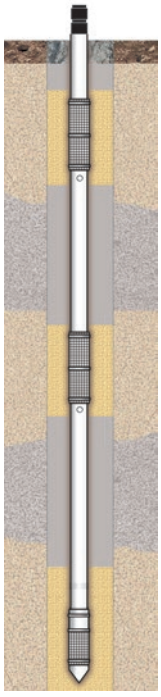
- Low cost and easy to install and use
- No joints - one smooth surface for easy, effective sealing
- Up to 7 depth-discrete zones in a single tube
- Locate ports and seals exactly where desired
- Installs quickly in large direct push casing and boreholes
- One 7-Channel CMT System can be completed by two people in under 3 hours, 3-Channel even faster
- Borehole not left open to allow cross contamination
- Isolated zones ensured using sand and bentonite layers or 3-Channel Cartridges - reliable and inexpensive
- Minimizes the risk of producing new contaminant pathways

One CMT System - Two Sizes		
Features	**7 Channel**	**3 channel**
Tubing diameter	1.7" (43 mm)	1.1" (28 mm)
Monitoring zones	up to 7	up to 3
Channel diameter	6-Pie: 0.4" (10 mm) 1-Hex: 3/8" (9.5 mm)	3-Hex: 3/8" (9.5 mm)
Channel volume	40 mL/ft. 30 mL/ft. (center)	30 mL/ft.
Installation options	Sand & bentonite backfill Natural formation collapse	Bentonite & sand cartridges Sand & bentonite backfill Natural formation collapse
Coil lengths (Coil 4 ft. dia.)	100 ft. (30 m), 200 ft (60 m) & 300 ft. (90 m)	100 ft. (30 m), 200 ft. (60 m) & 500 ft. (150 m)
Centralizer sizes (other sizes optional)	4.4" standard (112 mm)	3.3" standard (84 mm)
Borehole diameter recommended for backfill installations	4" (100 mm) and larger	3.5" (89 mm) and larger
Borehole diameter for installations with seal and sand cartridges	N/A	2.8" - 3.5" (71 mm - 89 mm)

Mechanical Plugs Seal Channels Securely



Typical 3-Channel CMT Installation in Overburden with Bentonite and Sand Cartridges



Typical 3 or 7-Channel CMT Installation using Layers of Bentonite and Sand Backfilled from Surface

Multichannel Tubing

A multilevel well that uses a continuous length of multichannel tubing has the advantage over other multilevels in that there are no joints. This significantly reduces the time and cost of installing wells and at the same time increases the reliability of the system. The CMT is very simple and convenient to use, as it gives full flexibility as to where monitoring zones are located.

The number and location of ports may be determined in advance, or after drilling the borehole. A Port Cutting Guide is used to create a port in a given channel, at the specified depth to be monitored. A plug is positioned and sealed in the channel just below the port opening and a stainless steel screen is fixed in place over the port to prevent fines from entering. Each channel is also sealed at the bottom of the tubing to avoid cross communication between monitoring zones.

Seals and Sand Packs

The CMT can be installed using standard sand and bentonite layers placed via a tremie pipe, or poured directly from the surface. The Model 103 Tag Line is ideal for accurate placement of sand and bentonite during borehole completion. If the installation is in loose sands, natural collapse can be used, allowing the sand to collapse around the tubing.

3-channel CMT Sand and Bentonite Cartridges

3-Channel Sand and Bentonite Cartridges

For direct push installation of the 3-Channel System, the annulus available is often too small to accurately place sand and bentonite layers. Therefore, bentonite cartridges have been developed to give reliable seals between zones, and accompanying sand cartridges to complete the installation.

These cartridges are approximately 2.4" (61 mm) in diameter and will fit inside various direct push drill rods. Ideally, the borehole diameter these bentonite cartridges are used in should not exceed a nominal 3.5" (90 mm), to ensure proper expansion and sealing.

CMT Installation at UK Chlorinated Solvents Site (Source: Waterra. UK)

Monitoring CMT Multilevel Wells

Water levels and samples can be accurately obtained using the following quality Solinst instruments:

Water Levels: The narrow, laser marked, coaxial cable Model 102 Water Level Meter and 102M Mini Water Level Meter with a 1/4" (6.3 m) dia. probe can be used to monitor water levels in any CMT channel.

Samples: Sampling can be performed using the Solinst Peristaltic Pump, which has a suction lift limit of approximately 25 ft (7.5 m). The Mini Inertial Pump can be used with inexpensive polyethylene tubing to depths of 50 ft (15 m), or using PTFE tubing to depths of 150 ft (45 m). The Micro Double Valve Pump (DVP) is ideal for low flow VOC sampling in narrow applications. The Micro DVP is made of flexible PTFE or polyethylene tubing which is 3/8" (9.5 mm) in diameter. A manifold at the surface has a quick-connect fitting for attachment to the Solinst Electronic Control Unit and a bypass for easy sample collection. Operation is easy, as the Electronic Control Unit has built in pre-sets. A multi-purge manifold is also available for the Micro DVP.

Vapor Samples: A special Vapor Wellhead Assembly can be used to obtain depth discrete vapor samples.

Mini Inertial Pump 1/4" (6 mm)

Model 410 Peristaltic Pump

Model 408M DVP 3/8" (9.5 mm)

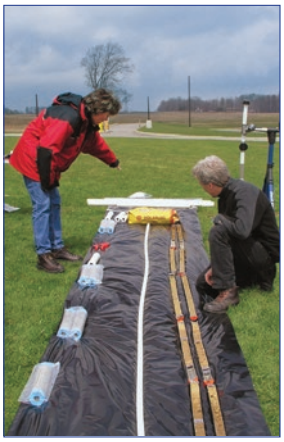
Model 102 Water Level Meter

Model 403 Vapor Wellhead

Model 464 Electronic Control Unit

CMT Field Applications

3-Channel CMT installation at a plant in Zeitz, Germany. Systems were completed using natural collapse and are being used to assess natural attenuation of BTEX.



Installation of a 3-Channel CMT System with bentonite and sand cartridges. Three zones were monitored over a 20 ft (6 m) depth. The installation was completed in glacial till at the University of Waterloo, Ontario Canada.

CMT System installed to a 60 m (200 ft) depth with seven monitoring zones. Installation was completed by placing layers of sand and bentonite to monitor a BTEX/MTBE plume in a Chalk aquifer, United Kingdom.

A gas station site in Watsonville, California. Five 3-Channel CMT Systems were installed to monitor gasoline contamination and MTBE plume. Installations were completed within hollow stem augers using bentonite and sand layers to isolate each monitoring zone.

CMT Training Programs

Solinst offers CMT courses that provide both instruction and hands-on training for CMT construction and installation. Contractors who attend and complete the course are "Trained CMT Contractors" and can be listed on the Solinst website at: **http://www.solinst.com/Prod/403/training.html**

As well as the Environmental Drilling Contractors who are training to become "Trained CMT Contractors", attendees often include regulators, consultants, and Solinst Agents and their clients. In some states, these training courses qualify for continuing education credits.

Courses are offered at various environmental conferences throughout the year, such as those put on by the NGWA, Battelle and others. For larger groups Solinst can set up a training session at the group's own facility.

Please contact Solinst should you wish to attend or set up a training session.

Instructing drilling contractors and consultants on CMT installation techniques at Battelle Bio-Symposium, Baltimore, Maryland.

CMT Installation and training as part of a "Multilevel Course" given by the University of Cranfield at Silsoe, U.K., in conjunction with Waterra (UK), British Geological Survey & Norwest Holst.

The first CMT contractor training course, conducted at the NGWA Expo in Las Vegas, December 2004. Contractors are being instructed on proper port construction.

Outdoor installation/ demonstration at premises of Parrat-Wolff, Environmental and Geotechnical Drilling Services, Syracuse, New York.

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