

Documents in Support of a
Significant New Use Rule for
Premanufacture Notice (PMN) P-13-0872

Docket ID Number
EPA-HQ-OPPT-2015-0220

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Sanitized SAT Report for P-13-0872

SAT Report
PMN Number: **P-13-0872**
SAT Date: **9/10/2013**

Related cases:

[REDACTED]

Concern levels:

Type of Concern:	<u>Health</u>	<u>Eco</u>	<u>Comments</u>
Level of Concern:	2-3	2	

<u>Persistence</u>	<u>Bioaccum</u>	<u>Toxicity</u>	<u>Comments</u>
2	1	2	

Exposure Based Review:

Health: No

Ecotox: Yes

Routes of exposure:

Health: Dermal Drinking Water Inhalation

Ecotox: All releases to water

Fate: ;

Keywords:

Keywords: IRR/POSS CORR-E,S,MM,L

DEVEL

SENS-S,L

AQUATOX-A,C

Summary of Assessment:

Fate:

Fate Summary: P-13-0872

FATE:

Liquid with MP < 25 C (E)

log Kow = 0.57 (E)

S > 10 g/L at 25 C (E)

VP = 8.2E-2 torr at 25 C (NOMO5)

BP = 226 C (NOMO5) based on 125-126 C @ 25 mm Hg (M)

H = 5.16E-4 (E)
 log Koc = 2.29 (E)
 log Fish BCF = 0.50 (E)
 log Fish BAF = -0.02 (E)
 POTW removal (%) = 20
 Time for complete ultimate aerobic biodeg = wk-mo
 Sorption to soils/sediments = moderate
 Volatilization half-life from a standard river = 3 hrs
 Volatilization half-life from a standard lake = 7 da
 Atmospheric Oxidation Half-life = 0.26 hr via OH radical
 PBT Potential: P2B1
 *CEB FATE: Migration to ground water = moderate

Health:

Health Summary: Absorption is moderate through the skin and GI tract, and good through the lung, based on physical/chemical properties. There are concerns for irritation/possible corrosion to the eyes, skin, mucous membranes, and lungs, as well as dermal and respiratory sensitization, based on [REDACTED] and by [REDACTED]. There is also concern for developmental toxicity, based on test data for the [REDACTED].

Test Data:

Corrosive to the respiratory tract in an acute inhalation study

[REDACTED]

28D inhalation LOEC 3 mg/m³, with corrosion to the respiratory tract;

Summary data, OPP RED for [REDACTED] (printed Jan 2012).

Rat oral developmental toxicity NOEL 75 mg/kg

Ecotox:

Test Organism	Test Type	Test End Point	Predicted	Measured	Comments
fish	96-h	LC50	340		
daphnid	48-h	LC50	36		
green algal	96-h	EC50	41		
fish	-	chronic value	34		
daphnid	-	chronic value	2.5		
algal	-	chronic value	12		
Sewage Sludge	3-h	EC50	-		

Sewage Sludge	-	Chronic Value	-		
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Ecotox Values Comments: Predictions are based on SARs for [REDACTED]; SAR chemical class = [REDACTED]; log Kow = 0.51 (EPI); liquid with mp unknown (P); S = 430 g/L at 25 C (P); pH7; effective concentrations based on 100% active ingredients and mean measured concentrations; hardness <150.0 mg/L as CaCO3; and TOC <2.0 mg/L;

Factors	Values	Comments
Assessment Factor	10	
Concentration of Concern (ppb)	250	
SARs	[REDACTED]	
	aliphatic amine	
Ecotox Category	[REDACTED]	

Ecotox Factors Comments:

SAT Chair: J. Kwiat

Sanitized Engineering Report for P-13-0872

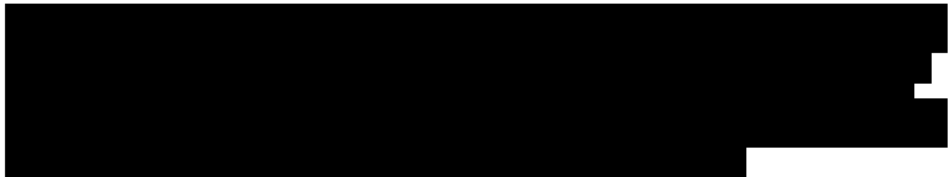
INITIAL REVIEW ENGINEERING REPORT
PMN: 13-0872
Focus Ready Draft 9/16/2013



JAS



SUBMITTER: Lamberti USA Inc.



MSDS: Yes

Label: No

Gen Eqpt: protective gloves/ close fitting safety goggles and/or visor conforming / adequate ventilation.

Respirator: adequate protective respiratory equipment.

Health Effects: Flammable liquid and vapor. Harmful if inhaled, absorbed through skin, or swallowed. May cause sensitization by skin contact.

TLV/PEL:

none established for PMN.



[REDACTED]

Consumer Use: No

SAT (concerns) (09/10/2013):

Related Cases and Rela

Ecotox Re [REDACTED]

Analogs: [REDACTED]

// Human

Migration to groundwater: Moderate

PBT rating: P2B1T2 .

Health: 2-3 Dermal, Drinking Water, Inhalation

Eco: 2 Water (All releases to water with a CC = 250 ppb.),

XB Testing (Testing desired)

OCCUPATIONAL EXPOSURE RATING: 2-3B

NOTES & KEY ASSUMPTIONS:

Generated by the 06/07/2005 version of ChemSTEER. [REDACTED]

[REDACTED]

POLLUTION PREVENTION CONSIDERATIONS:

No Pollution Prevention information provided by the submitter.

EXPOSURE-BASED REVIEW: Yes (0 criteria met)

1) # of workers exposed: 0 >1000? No

2) >100 workers with >10 mg/day inhalation exposure: No

3) (a) >100 workers w/1-10 mg/day inh. exp. & >100
days/yr: No

(b) Routine Dermal Cont: >250 workers & >100 days/yr:
No

INITIAL REVIEW ENGINEERING REPORT
PMN: 13-0872

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

INITIAL REVIEW ENGINEERING REPORT
PMN: 13-0872

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Sanitized Exposure Report for P-13-0872

POST FOCUS EXPOSURE REPORT



Summary Page

Chemical ID: P-13-0872

Reviewer: Bevington/BC

Endpoints-Assessed Table

Endpoints/Assessment Cycles ¹	Releases Assessed in NCEM2?	Reasons for not assessing releases					
		No XB Testing Required	No Hazard Concern	No Releases	Release Below Acute Threshold ⁵	Release Below Chronic Threshold ⁵	Other
Ingestion							
Surface water							
Ground water (landfill)							
Consumer Use: DtD ²							
Inhalation							
Air: incineration (stack)							
Air: fugitive							
Consumer Use: CEM ³							
Dermal							
Consumer Use: CEM							
Eco							
Surface water: ADR conc and/or PDM ⁴							
Consumer Use: DtD							

¹Assessment cycles are endpoint concentrations and dose calculations within the NCEM2 model.
²Down-the-Drain
³Consumer Exposure Model
⁴Probabilistic Dilution Model
⁵The threshold values for assessing endpoints are 1 mg/day for acute doses and 1 mg/year for chronic doses.

EAB DROP: Release information for this compound does not meet criteria for preparation of an exposure assessment in the Exposure Assessment Branch=s (EAB) *Initial Review Exposure Report* (this report).