



TOROS TARIM

SAFETY DATA SHEET

Zincous Composite Fertilizer

According to Regulation (EC) No 1907/2006, Annex II, as amended.
According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Zincous Composite Fertilizer
Variants	NPK (S) 10.20.20 (6S) Zinc Micronutrient Compound Fertilizer. (10.20.20 Super Gold) NPK (S) 10:20:20 (6S) Zinc Nutrient Micro-Agent Compound Fertilizer. (10.20.20 URE Super Gold) NPK 15:15:15 + Zn Zinc Nutrient Micro-Agent Compound Fertilizer. (15.15.15 Super AS) NPK 15:15:15 + Zn Zinc Nutrient Micro-Agent Compound Fertilizer. (15.15.15 with Super URE) NP 20.20.0 + Zn Zinc Micro Nutrient Composite Fertilizer. (20.20.0 Super AS) NP 20.20.0 + Zn Zinc Micro Nutrient Composite Fertilizer. (20.20.0 with Super URE) 20-32-0 + 6S + 1zn NPK 13-25-5 + 0.5 ZN NP (S) 20-32 (6S) + Zn Zinc Nutrient Micro-Agent Compound NPK (S) 18-24-12 (4S) + Zn Zinc Micro Nutrient Composite Fertilizer
Chemical description	Inorganic chemical fertilizer.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Fertilizer.
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier	Toros Tarım Sanayi ve Ticaret A.Ş. Head office: Tekfen Tower Büyükdere Cad. No: 209 34394 4. Levent Şişli / İstanbul-Turkey Tel: +90 212 357 02 02 Fax: +90 212 357 02 31 www.toros.com.tr
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1.4. Emergency telephone number

Emergency telephone	Toros Tarım / Ceyhan Production Facilities - Tel: +90 322 634 22 22
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)	
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Aquatic Chronic 3 - H412

Additional information Classification (Regulation (EC) No. 1272/2008).

2.2. Label elements

Hazard statements	H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.



TOROS TARIM

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Commission Regulation (EU) 2020/878 of 18 June 2020.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Ammonium sulphate			5-10%
CAS number: 7783-20-2	EC number: 231-984-1	REACH No: 01-2119455044-46-XXXX	
Classification	Not Classified		
Urea			5-10%
CAS number: 57-13-6	EC number: 200-315-5		
Classification	Not Classified		
Mono Ammonium Phosphate			5-10%
CAS number: 7722-76-1	EC number: 231-764-5		
Classification	Not Classified		
Diammonium phosphate			5-10%
CAS number: 7783-28-0	EC number: 231-987-8	REACH No: 01-2119490974-22-XXXX	
Classification	Not Classified		
Potassium chloride			5-10%
CAS number: 7447-40-7	EC number: 231-211-8		
Classification	Not Classified		
Zinc oxide			<2%
CAS number: 1314-13-2	EC number: 215-222-5		
M factor (Acute) = 1	M factor (Chronic) = 1		
Classification	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		

The full text for all hazard statements is displayed in Section 16.

Composition comments Workplace exposure limits are shown in section 8.



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Ingestion	Rinse mouth thoroughly with water. Remove any dentures. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin contact	Rinse with water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known. May cause discomfort if swallowed.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	No specific symptoms known. May be slightly irritating to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	The product is not flammable.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO ₂). Ammonia. Oxides of phosphorus. Oxides of nitrogen.



TOROS TARIM

Zincous Composite Fertilizer

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5.3. Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. May cause or intensify fire; oxidiser. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid inhalation of dust and contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment.

6.2. Environmental precautions

Environmental precautions

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8.
See Section 11 for additional information on health hazards.
See Section 12 for additional information on ecological hazards.
For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.



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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Protect from moisture.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

General powder (TWA-8 hours); 5 mg/m³, 15 mg/m³ (TLV-OSHA)
ACGIH

Zinc oxide

Long-term exposure limit (8-hour TWA): ACGIH: American Conference of Governmental Industrial Hygienists 15 mg/m³ dust
Long-term exposure limit (8-hour TWA): ACGIH: American Conference of Governmental Industrial Hygienists 5 mg/m³ fume
ACGIH = American Conference of Governmental Industrial Hygienists.

Zinc oxide (CAS: 1314-13-2)

DNEL	Industry - Dermal; Long term systemic effects: 83 mg/kg/day Industry - Inhalation; Long term systemic effects: 5 mg/m ³ Consumer - Dermal; Long term systemic effects: 83 mg/kg/day Consumer - Inhalation; Long term systemic effects: 2.5 mg/m ³ Consumer - Oral; Long term systemic effects: 0.83 mg/kg/day
PNEC	Fresh water; 0.0206 mg/l marine water; 0.0061 mg/l STP; 0.052 mg/l Sediment (Freshwater); 117.8 mg/kg Sediment (Marinewater); 56.5 mg/kg Soil; 35.6 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.



TOROS TARIM

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Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. Wear protective gloves made of the following material: Neoprene. Polyvinyl chloride (PVC).
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.
Environmental exposure controls	Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Granules.
Colour	Brown. Black.
Odour	Ammonia.
Odour threshold	No information available.
pH	pH (diluted solution): 7 %10
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	Not applicable.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	<1 mm Hg @ °C
Vapour density	No information required.
Bulk density	~ 0.9 gr / cm ³ ~1,0 gr/cm ³
Solubility(ies)	Soluble in water.



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Auto-ignition temperature	Not applicable.
Decomposition Temperature	No information available.
Viscosity	Not applicable.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	No information required.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	See the other subsections of this section for further details.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
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10.4. Conditions to avoid

Conditions to avoid	Avoid exposure to high temperatures or direct sunlight.
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10.5. Incompatible materials

Materials to avoid	Alkalis. Strong acids. Copper alloys.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. If the product reacts with acid or decomposes, ammonia gas may be released.
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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral	
Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - dermal	
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Skin corrosion/irritation	Based on available data the classification criteria are not met.
Serious eye damage/irritation	



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Serious eye damage/irritation	Based on available data the classification criteria are not met.
Respiratory sensitisation	
Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation	
Skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	Based on available data the classification criteria are not met.
Reproductive toxicity	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard	
Aspiration hazard	Not relevant. Solid.
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Dust in high concentrations may irritate the respiratory system.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	Prolonged contact may cause dryness of the skin. May be slightly irritating to skin.
Eye contact	Irritating to eyes.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.

11.2. Information on other hazards

Information on other hazards

Toxicological information on ingredients.

Urea

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.
LD₅₀ 8471 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.
LD₅₀ 8200 mg/kg, Dermal, Rat



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Potassium chloride

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 2,600.0

Species Rat

ATE oral (mg/kg) 2,600.0

Zinc oxide

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 3,000.0

Species Rat

ATE oral (mg/kg) 3,000.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC50 5700 ppmV/4hr/day, Inhalation, Rat

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Ames test: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOAEL 0.55 mg/m³, Inhalation, Rat

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

Urea

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: 17,500 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hour: 3,910 mg/l, Daphnia magna

Potassium chloride

Acute aquatic toxicity



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Acute toxicity - fish	LC ₅₀ , 96 hour: 920 mg/l, Gambusia affinis (UCLID)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hour: 825 mg/l, Daphnia magna (DIN 38412 Part 11) (UCLID)
Acute toxicity - aquatic plants	IC ₅₀ , 72 hour: 2500 mg/l, Desmodosmus subspicatus (UCLID)

Zinc oxide

Toxicity	Very toxic to aquatic organisms.
Acute aquatic toxicity	
LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 1,793 mg/l, Brachydanio rerio (Zebra Fish) Test material : nZnO
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 2.6 mg/l, Daphnia magna Test material : nZnO
Acute toxicity - aquatic plants	NOEC, 72 hours: 0.06 mg/l, Freshwater plants NOEC, 72 hours: 0.024 mg/l, Selenastrum capricornutum Read-across data.
Chronic aquatic toxicity	
M factor (Chronic)	1
Chronic toxicity - fish early life stage	LOEC, 6 days: 0.240 mg/l, Pimephales promelas (Fat-head Minnow)
Chronic toxicity - aquatic invertebrates	NOEC, 9 days: 0.019 mg/l,

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

Zinc oxide

Persistence and degradability The product contains only inorganic substances which are not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

Urea

Partition coefficient	log Pow: - 2,59 log Pow: -1,59
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Zinc oxide

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

Mobility Soluble in water.

Ecological information on ingredients.

Zinc oxide

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Endocrine disrupting properties

Endocrine disrupting properties No data available.

12.7. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.



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14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk according to IMO instruments Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	Commission Regulation (EU) 2020/878 of 18 June 2020. Health and Safety at Work etc. Act 1974 (as amended). Commission Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Restrictions (Annex XVII Regulation 1907/2006)	No specific restrictions on use are known for this product.
Seveso Directive - Control of major accident hazards	Not relevant.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). EC ₅₀ : 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
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Classification abbreviations and acronyms	Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Key literature references and sources for data	Source: European Chemicals Agency, http://echa.europa.eu/ This SDS is prepared based on the information received from the product owner.
Classification procedures according to SI 2019 No. 720 and Regulation (EC) No. 1272/2008	Aquatic Chronic 3 - H412: : Calculation method.
Training advice	Only trained personnel should use this material.
Revision comments	This is the first issue.
Issued by	Büşra Tarakci / CRAD gbf@crad.com.tr Tel.:+90 216 3354600
Revision date	22/12/2022
Revision	0.2
Supersedes date	15/10/2019
SDS number	9574
Hazard statements in full	H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.