

**SAFETY DATA SHEET**

Prepared according to the European Commission Regulations (EU) 2020/878

**PRODUCT:** Top**Date of filling:** 20 01 2023**Last revision date:** –**Version:** 1

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## SAFETY DATA SHEET

### **Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

#### **1.1. PRODUCT IDENTIFIER**

**Product name:** Top**Mixture a unique formula identifier (UFI):** –.

#### **1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST**

**Relevant identified uses:** Nail cosmetics.**Uses advised against:** Not available.

#### **1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

**Manufacturer:****Electronic mail address of the person, responsible for the safety data sheet:**

E-mail: |

#### **1.4. EMERGENCY TELEPHONE NUMBER**

Poison Control Centre (Austria)

Tel. No.: +43 1 406 4343

Antigif Centrum Centre Antipoisons (Belgium)

Tel. No.: +32 070 245 245

National Toxicology Centre, Hospital for Active Medical Treatment and Emergency Medicine "N.I.Pirogov" (Bulgaria)

Tel. No. / fax: +359 2 9154 233

Poison Control Centre (Croatia)

Tel. No.: +385 1 234 8342

Toxicological Information Centre (Czech Republic)

Tel. No.: +420 224 919 293 / +420 224 915 402

Poison Control Hotline (Denmark)

Tel. No.: +45 82 12 12 12

Poisoning Information Centre (Estonia)

Tel. No.: +372 794 3794 (or 16662 national)

Poison Information Centre (Finland)

Tel. No.: +358 09 471 977

ORFILA (INERIS) (France)

Tel. No.: +33 (0) 1 45 42 59 59

Health Toxicological Information Service (Hungary)

Tel. No.: +36 80 20 11 99

Poison Centre (Iceland)

Tel. No.: +354 543 2222

CAV Milano Niguarda Ca' Granda (Italy)

Tel. No.: +39 02 66101029

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CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA  
Tel. No.: +39 06 68593726

Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs (Latvia)  
Tel. No.: +371 670 42473

The State Medicines Control Agency (SMCA), Poison Information Bureau (PIB) (Lithuania)  
Tel. No.: +370 5 236 20 52

Mater Dei Hospital (Malta)  
Tel. No.: +356 2545 0000

National Poisons Information Centre (NVIC) (Netherlands)  
Tel. No.: +31 (0) 30 274 8888

Mental Health Helpline (Norway)  
Tel. No.: +47 22 59 13 00

Instituto Nacional de Emergência Médica (Portugal)  
Tel. No.: +351 213 303 271

Biroul RSI si Informare Toxicologica (Romania)  
Tel. No.: +40 021 318 3606

National Toxicological Information Centre (NTIC) (Slovakia)  
Tel. No.: +421 2 5477 4166

Toxicology Information Service (Spain)  
Tel. No.: +34 91 562 04 20

Swedish Poisons Information Centre (Sweden)  
Tel. No.: +46 08 331231

**Section 2. HAZARDS IDENTIFICATION****2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE****2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]**

Acute Tox. 4; H302  
Skin Corr. 1B; H314  
Skin Sens. 1; H317  
Eye Dam. 1; H318  
Aquatic Chronic 3; H412

**2.1.2. Additional information:**

Full text of H phrases, hazard and EU hazard statements in Section 16.

**2.2. LABEL ELEMENTS****2.2.1. Label according to Regulation (EC) No. 1272/2008 [CLP]****Hazard pictograms:****Signal word:** Danger.**Hazard statements:**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

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H317 May cause an allergic skin reaction.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

P260 Do not breathe dust/fume/gas/mist/ vapours/spray.  
 P264 Wash hands thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P363 Wash contaminated clothing before reuse.  
 P405 Store locked up.  
 P501 Dispose of contents/container to accordance with local/regional/national/international regulation.

**Supplemental label information:** None.**2.3. OTHER HAZARDS**

The product does not meet the criteria for a PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

**Section 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1. SUBSTANCES**

Not applicable (the product is a mixture).

**3.2. MIXTURES**

Substance	INCI	CAS No.	EC/List No.	Classification:	Concentration (%)
				According EC No. 1272/2008	
2-hydroxyethyl methacrylate	HEMA	868-77-9	212-782-2	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 (Note D)	
3-mercaptopropionic acid	Mercaptopropionic acid	107-96-0	203-537-0	Met. Corr. 1; H290 Acute Tox. 3; H301 Skin Corr. 1B; H314 Eye Dam. 1; H318 Acute Tox. 4; H332	
2,6-di-tert-butyl-p-cresol	BHT	128-37-0	204-881-4	Aquatic Chronic 1; H410 M(Chronic)=1	
2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate	Acrylates copolymer	25035-69-2	607-492-1	Not Classified.	
Cellulose, acetate butanoate	Cellulose acetate butyrate	9004-36-8	618-381-2	Not Classified.	
				Not Classified.	
				Not Classified.	

**Additional information:** For full text of H-statements: see section 16.

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**Section 4. FIRST AID MEASURES**

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**4.1. DESCRIPTION OF FIRST AID MEASURES**

**General information.** Get medical attention if any discomfort develops.

**Following skin contact.** Get medical attention if irritation develops and persists. Rinse skin with water/shower.

**Following eye contact.** Immediately wash eyes with plenty of water. Get medical attention immediately, if irritation continues.

**Following inhalation.** Move to fresh air. Call a physician if symptoms develop or persist.

**Following ingestion.** Rinse mouth. If ingestion of a large amount does occur, call a poison control centre immediately.

**Self-protection of the first aider:** To care for their own safety.

**4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

Not available.

**4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

Treat symptomatically. In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.

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**Section 5. FIREFIGHTING MEASURES**

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**General fire hazards.** Clear fire area of all non-emergency personnel.

**5.1. EXTINGUISHING MEDIA**

**Suitable extinguishing media.** Water spray, foam (alcohol resistant preferably), dry chemical powder or CO<sub>2</sub>.

**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**

Upon decomposition, this product emits carbon monoxide, carbon dioxide and etc.

**5.3. ADVICE FOR FIREFIGHTERS**

**Special protective equipment for fire-fighters.** Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

**Special fire-fighting procedures.** Do not breathe fire released materials. Move containers away from fire area, if it can be done without risk. Use water mist cooling unopened containers. Cooling tanks pouring sufficient water and fire go out. Prevent the material from entering the drainage system, surface waters.

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**Section 6. ACCIDENTAL RELEASE MEASURES**

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**6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

**For non-emergency personnel.** Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up.

**For emergency responders.** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

**6.2. ENVIRONMENTAL PRECAUTIONS**

Prevent contamination of soil and water. Prevent further leakage or spillage if safe to do so.

**6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

Prevent vapour cloud. Prevent further leakage or spillage if safe to do so. Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

**6.4. REFERENCE TO OTHER SECTIONS**

For personal protection, see Section 8. For waste disposal, see section 13.

## Section 7. HANDLING AND STORAGE

### 7.1. PRECAUTIONS FOR SAFE HANDLING

**Advice on safe handling.** Put on appropriate personal protective equipment (see Section 8). Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Advice on protection against fire and explosion.** Keep away from heat. Keep away from sources of ignition.

### 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep containers closed when not in use. Do not store in direct sunlight. Store at ambient temperature and atmospheric pressure.

### 7.3. SPECIFIC END USE(S)

Not available.

## Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. CONTROL PARAMETERS

#### Occupational exposure limits.

DNEL-Values:

Critical component	Type	Route of Exposure	Health Warnings	Remarks
2-hydroxyethyl methacrylate; CAS No. 868-77-9	Workers	Inhalation	4.9 mg/m <sup>3</sup>	Long-term - systemic effects
	Workers	Dermal	1.39 mg/kg/d	Long-term - systemic effects

Occupational Exposure Limits:

2,6-di-tert-butyl-p-cresol, CAS No. 128-37-0: TWA (EH 40 WEL) [mg/m<sup>3</sup>]: 10;

TWA (US) [mg/m<sup>3</sup>]: 2. Inhalable fraction and vapour.

#### Biological limit values.

PNEC-Values:

Critical component	Environmental compartment	PNEC-Values	Remarks
2-hydroxyethyl methacrylate; CAS No. 868-77-9	Water	0.482 mg/l	
	Soil	0.476 mg/kg	
	Sewage treatment plant (STP)	10 mg/l	
	Freshwater sediment	3.79 mg/kg	

**Recommended monitoring procedures.** Follow standard monitoring procedures.

### 8.2. EXPOSURE CONTROLS

**General information:** Do not eat, drink, smoke at the workplace. Wash hands before breaks and after work.

#### APPROPRIATE ENGINEERING CONTROLS

Provide adequate general and local exhaust ventilation.

#### INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

**General information.** Use personal protective equipment as required. Keep working clothes separately. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection.** Wear protective goggles with side-shields according to EN 166.

**Skin protection.** Wear protective work clothing.

**Hand protection.** When contact is likely, appropriate wrist long chemical resistant gloves (EN 374).

**Respiratory protection.** General ventilation normally adequate. In case of inadequate ventilation or risk of inhalation of vapours, suitable respiratory equipment (breathing mask). Seek advice from local supervisor (EN 149).

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**Thermal hazards.** Not applicable.

**Hygiene measures.** Handle in accordance with good industrial hygiene and safety practices. Eye wash fountain and emergency showers are recommended. Launder contaminated clothing before reuse.

**8.3. ENVIRONMENTAL EXPOSURE CONTROLS**

Contain spills and prevent releases, and observe national regulations on emissions.

**Section 9. PHYSICAL AND CHEMICAL PROPERTIES**

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**9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE:	no data available
COLOUR:	transparent
ODOUR:	light
MELTING POINT/FREEZING POINT:	no data available
BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE:	no data available
FLAMMABILITY (SOLID, LIQUID, GAS):	no data available
FLASH POINT:	no data available
AUTO-IGNITION TEMPERATURE:	no data available
DECOMPOSITION TEMPERATURE:	no data available
pH:	6.0
KINEMATIC VISCOSITY:	no data available
SOLUBILITY:	no data available
PARTITION COEFFICIENT (N-OCTANOL/WATER):	no data available
VAPOUR PRESSURE:	no data available
DENSITY AND/OR RELATIVE DENSITY:	no data available
RELATIVE VAPOUR DENSITY:	no data available
PARTICLE CHARACTERISTICS:	no data available

**9.2. OTHER INFORMATION****9.2.1. Information with regard to physical hazard classes**

None.

**9.2.2. Other safety characteristics**

No additional information.

**Section 10. STABILITY AND REACTIVITY**

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**10.1. REACTIVITY**

The product is non-reactive under normal conditions of use, storage and transport.

**10.2. CHEMICAL STABILITY**

Stable at normal conditions.

**10.3. POSSIBILITY OF HAZARDOUS REACTIONS**

No additional information.

**10.4. CONDITIONS TO AVOID**

High temperatures and sources of ignition.

**10.5. INCOMPATIBLE MATERIALS**

No data available.

**10.6. HAZARDOUS DECOMPOSITION PRODUCTS**

May produce hazardous fumes like carbon monoxide, carbon dioxide and etc.

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**Section 11. TOXICOLOGICAL INFORMATION**

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**11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) No. 1272/2008****Acute toxicity:** No information available for the product.**Information on hazards ingredients:**2-hydroxyethyl methacrylate, CAS No. 868-77-9:

Acute Oral Toxicity: LD50 – 5564 mg/kg (rat);

Acute Dermal Toxicity: LD50 – &gt;5000 mg/kg/24h (rabbit).

3-mercaptopropionic acid, CAS No. 107-96-0:

Acute Oral Toxicity: LD50 – 63-126 mg/kg (rat);

Acute Inhalation Toxicity: LC50 – 1818 mg/m<sup>3</sup>/4h (aerosol) (rat);

Acute Dermal Toxicity: LD50 – 5 ml/kg (guinea pig).

2,6-di-tert-butyl-p-cresol, CAS No. 128-37-0:

Acute Oral Toxicity: LD50 – &gt;6000 mg/kg (rat);

Acute Inhalation Toxicity: LC50 – 59.7 mg/m<sup>3</sup>/30min (vapour) (mouse);

Acute Dermal Toxicity: LD50 – &gt;2000 mg/kg/24h (rat).

**Skin corrosion/irritation.** May cause severe skin burns.**Serious eye damage/eye irritation.** May cause serious eye damage.**Respiratory or skin sensitisation.** May cause an allergic skin reaction.**Germ cell mutagenicity.** Not classified.**Carcinogenicity.** Not classified.**Reproductive toxicity.** Not classified.**STOT – single exposure.** Not classified.**STOT – repeated exposure.** Not classified.**Aspiration hazard.** Not classified.**11.2. INFORMATION ON OTHER HAZARDS****11.2.1. Endocrine disrupting properties**

None.

**11.2.2. Other information**

No data available.

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**Section 12: ECOLOGICAL INFORMATION**

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**12.1. TOXICITY**

No information available for the product.

**Information on ingredients:**2-hydroxyethyl methacrylate, CAS No. 868-77-9:LC50 for freshwater fish: >100 mg/l/96h (*Oryzias latipes*);EC50 for freshwater invertebrates: 380 mg/l/48h (*Daphnia magna*);EC50 for freshwater algae: 345 mg/l/72h (*Raphidocelis subcapitata*).3-mercaptopropionic acid, CAS No. 107-96-0:LC50 for freshwater fish: 98 mg/l/96h (*Brachydanio rerio*);EC50 for freshwater invertebrates: 9 mg/l/48h (*Daphnia magna*);EC50 for freshwater algae: 26 mg/l/72h (*Pseudokirchneriella subcapitata*);EC10 or NOEC for freshwater algae: 4.1 mg/l/72h (*Pseudokirchneriella subcapitata*).2,6-di-tert-butyl-p-cresol, CAS No. 128-37-0:LC50 for freshwater fish: 0.199-1.1 mg/l/96h (*Oryzias latipes*);

NOEC: 0.053 mg/l/30d;

LOEC: 0.14 mg/l/30d;

EC50 for freshwater invertebrates: 0.48 mg/l/48h (*Daphnia magna*);

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NOEC: 0.069 mg/l/21d;

EC50 for freshwater algae: 0.758 mg/l/96h (Pseudokirchneriella subcapitata).

### 12.2. PERSISTENCE AND DEGRADABILITY

No data available.

### 12.3. BIOACCUMULATIVE POTENTIAL

No data available.

### 12.4. MOBILITY IN SOIL

**Mobility.** No data available.

### 12.5. RESULTS OF PBT AND vPvB ASSESSMENT

Not a PBT or vPvB substance or mixture.

### 12.6. ENDOCRINE DISRUPTING PROPERTIES

No data available.

### 12.7. OTHER ADVERSE EFFECTS

No known significant effects or critical hazards.

## Section 13. DISPOSAL CONSIDERATION

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### 13.1. WASTE TREATMENT METHODS

**Residual waste.** Dispose of contents/container with local/regional/national/international regulations.

**Contaminated packaging.** Not available.

**EU waste code.** Not available.

**Disposal methods/information.** Review federal, state/provincial, and local government requirements prior to disposal.

## Section 14. TRANSPORT INFORMATION

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Transport only in accordance with ADR for road haulage, RID for rail transportation, ADN/IMDG for carriage by vessel/sea and IATA for carriage by air.

**14.1. UN number or ID number.** None.

**14.2. UN proper shipping name.** None.

**14.3. Transport hazard class (es).** None.

**14.4. Packing group.** None.

**14.5. Environmental hazards.** Yes.

**14.6. Special precautions for user.** Before use read the safety instructions in the safety data sheet and emergency procedures.

**14.7. Maritime transport in bulk according to IMO instruments.** Not applicable.

## Section 15. REGULATORY INFORMATION

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### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

– Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No.793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union No. L 396, 30-12-2006, error correction – No. L 136/3, 2007-5-29);



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- COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 203, 26.6.2020, p. 28–58);
- On 16 December 2008 the Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of chemical substances and mixtures was undersigned. The said Regulation amended and repealed the directives 67/548/EEC and 1999/45/EC and Regulation (EC) No. 1907/2006 (the REACH Regulation). The Regulation has been published in the Official Journal of the European Union No. L 353, volume 51 on 31 December, 2008;
- COMMISSION REGULATION (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. The Regulation has been published in the Official Journal of the European Union No. L 156, on 14 June, 2016;
- REGULATION (EC) No 1223/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 30 November 2009 on cosmetic products (OJ L 342, 22.12.2009, p. 59);
- The European Agreement concerning International Carriage of Dangerous Goods by Road (ADR).

**15.2. CHEMICAL SAFETY ASSESSMENT**

For this product a chemical safety assessment has not been carried out.

**Section 16. OTHER INFORMATION****16.1. INDICATION OF CHANGES**

Information contained in the Regulation 1907/2006/EC with the Regulation 2020/878.

**Indication of changes:** –

Date of filling: 20-01-2023

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**16.2. FULL TEXT OF HAZARD AND PRECAUTIONARY STATEMENTS**

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

P260 Do not breathe dust/fume/gas/mist/ vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container to accordance with local/regional/national/international regulation.

**Supplemental label information:** None.

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**Abbreviations:**

Met. Corr. 1 – Corrosive to metals; Hazard Category 1.  
Acute Tox. 3 – Acute Toxicity (oral); Hazard Category 3.  
Acute Tox. 4 – Acute Toxicity (oral, inhaled); Hazard Category 4.  
Skin Corr. 1B – Skin corrosion; Hazard Sub-category 1B.  
Skin Irrit. 2 – Skin irritation; Hazard Category 2.  
Skin Sens. 1 – Skin sensitisation; Hazard Category 1.  
Eye Dam. 1 – Serious eye damage; Hazard Category 1.  
Eye Irrit. 2 – Eye irritation; Hazard Category 2.  
Aquatic Chronic 1 – Hazardous to the aquatic environment – long-term (chronic) aquatic hazard; Hazard Category 1.  
Aquatic Chronic 3 – Hazardous to the aquatic environment – long-term (chronic) aquatic hazard; Hazard Category 3.

**Acronyms:**

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 – Regulations concerning the International Carriage of Dangerous Goods by Rail.  
IMDG – International Maritime Dangerous Goods.  
IATA – International Air Transport Association.  
IMO – International Maritime Organization.  
vPvB – Very Persistent and Very Bioaccumulative.  
PBT – Persistent, Bioaccumulative and Toxic substance.  
LC50 – Lethal Concentration to 50 % of a test population.  
LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose).  
EC50 – Effective concentration to 50% of a test population (Half maximal effective concentration).  
IC50 – Inhibitory concentration to 50% of a test population (Half maximal inhibitory concentration).  
CAS – Chemical Abstracts Service number.  
CEN – European Committee for Standardisation.  
STOT – Specific Target Organ Toxicity.  
PNEC(s) – Predicted No Effect Concentration(s).  
ACGIH – Association advancing occupational and environmental health.  
NIOSH – National Institute of Occupational Safety and Health.  
NOEC – No effect concentration.  
SDS – Safety Data Sheet.

**KEY LITERATURE REFERENCES AND SOURCES FOR DATA:**

- The data provided by the European Chemicals Bureau (ECB), European Chemicals Agency (ECHA), Swedish Chemicals Agency (KEMI), International Laboratories Organization (ILO), the TOXNET Internet pages.

**Disclaimer**

Information is correct to the best of our knowledge at the date of the SDS publication. It is not a specification sheet nor should any displayed data be construed as a specification. The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.