

# **SAFETY DATA SHEET**

1500 HD HARDENER

## Safety data sheet according to GOST 30333-2007

Section 1. Chemical product and company identification         GHS product identifier       : 1500 HD HARDENER         SDS code       : 12160000D	
<b>SDS code</b> : 12160000D	
<u>Relevant identified uses of the substance or mixture and uses advised against</u>	
Identified uses	
Paint. Professional use Industrial use	
Uses advised against	
All other uses	
Product use : Solvent borne coating for interior use.	
Supplier's details	
MAPAERO SAS	
10, Avenue de la Rijole CS30098	
09103 PAMIERS Cedex	
France	
National advisory body/ : 8-10-1-202-625-3333 / 8-10-1-202-784-4660 Poison Center (For use only by licensed medical professionals.)	
e-mail address of person : PSRA_PAMIERS@akzonobel.com responsible for this SDS	
Emergency telephone       : +33 (0)5 34 01 34 01         number (with hours of       +33 (0)5 61 60 23 30         operation)	

## Section 2. Hazards identification

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## Classification of the substance or mixture according to GOST 32419-2013 and GOST 32423/24/25-2013

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CHEMICALS THAT CAUSE SENSITIZATION - Chemical which cause skin sensitization SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory trac irritation) - Category 3	ract
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GHS label elements Hazard pictograms





# Section 2. Hazards identification

Signal word	: Warning
Hazard statements	: Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from flames and hot surfaces. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapor. Wash hands thoroughly after handling.
Response	: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Call a POISON CENTER or physician.
Storage	: Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not : None known. result in classification

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

Ingredient name	%	Identifiers	Classification	Туре
Isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate, oligomers	≥25 - ≤50	CAS: 53880-05-0	CHEMICALS THAT CAUSE SENSITIZATION - Chemical which cause skin sensitization SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	[1]
Hexamethylene diisocyanate, oligomers	≥10 - ≤25	CAS: 28182-81-2	ACUTE TOXICITY (inhalation) - Category 4 CHEMICALS THAT CAUSE SENSITIZATION - Chemical which cause skin sensitization SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	[1]
2-methoxy- 1-methylethyl acetate	≤10	CAS: 108-65-6	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	[1] [2]
xylene	≥10 - ≤20	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY	[1] [2]
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1500 HD HARDENER

## Section 3. Composition/information on ingredients

n-butyl acetate	≤5.5	CAS: 123-86-4	(SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY	[1] [2]
ethylbenzene	≤3	CAS: 100-41-4	(SINGLE EXPOSURE) (Narcotic effects) - Category 3 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## <u>Type</u>

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

## Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

: Causes serious eye irritation.
: May cause respiratory irritation.
: Causes skin irritation. May cause an allergic skin reaction.

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## Section 4 First aid measures

Section 4. First a	a measures		
Ingestion	: No known significant effects or critical hazards.		
<u>Over-exposure signs/symp</u>	<u>otoms</u>		
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness		
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing		
Skin contact	: Adverse symptoms may include the following: irritation redness		
Ingestion	: No specific data.		
Indication of immediate me	dical attention and special treatment needed, if necessary		
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.		
Specific treatments	: No specific treatment.		
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.		

## See toxicological information (Section 11)

Section 5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media	: Use dry chemical, $CO_2$ , water spray (fog) or foam.	
Unsuitable extinguishing media	: Do not use water jet.	
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.	
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.	
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	



# Section 6. Accidental release measures

Personal precautions, protect	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	entainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: 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.



# Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
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# Section 8. Exposure controls/personal protection

## **Control parameters**

## Occupational exposure limits

Ingredient name	Exposure limits
<mark>⊭ý</mark> lene	ACGIH TLV (United States, 1/2022). [xylene] Notes: 1996 Adoption Substances for which there is a Biological Exposure Index or Indices Refers to Appendix A Carcinogens. STEL: 651 mg/m <sup>3</sup> 15 minutes. TWA: 434 mg/m <sup>3</sup> 8 hours.
n butul costata	TWA: 20 ppm 8 hours.
n-butyl acetate	ACGIH TLV (United States, 1/2022). [Butyl acetates] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.
ethylbenzene	ACGIH TLV (United States, 1/2022). Ototoxicant. Notes: Substances for which there is a Biological Exposure Index or Indices 2002 Adoption. TWA: 20 ppm 8 hours.

Appropriate engineering controls	:	Use only with adequate ventilation. Use ventilation or other engineering controls contaminants below any recommended also need to keep gas, vapor or dust co limits. Use explosion-proof ventilation e	to keep wo or statutory ncentration	orker exposure to a limits. The engir	airborne neering controls
Environmental exposure controls	:	Emissions from ventilation or work proce they comply with the requirements of en cases, fume scrubbers, filters or engine equipment will be necessary to reduce e	vironmenta ering modif	al protection legisla fications to the pro	ation. In some ocess
Individual protection measure	es				
Hygiene measures	:	Wash hands, forearms and face thoroug eating, smoking and using the lavatory a Appropriate techniques should be used Contaminated work clothing should not contaminated clothing before reusing. E showers are close to the workstation loop	and at the e to remove be allowed Ensure that	end of the working potentially contam out of the workpla	period. inated clothing. ace. Wash
Eye/face protection	:	Safety eyewear complying with an appro assessment indicates this is necessary gases or dusts. If contact is possible, th unless the assessment indicates a high goggles.	to avoid ex ne following	posure to liquid sp protection should	blashes, mists, be worn,
Skin protection					
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# Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

## **Appearance**

Physical state	:	Liquid.
Color	:	Colorless.
Odor	:	Characteristic.
Odor threshold	:	Not available.
рН	:	Not available. [DIN EN 1262]
Melting point/freezing point	:	Not available.
Boiling point, initial boiling point, and boiling range	:	Not available.
Flash point	:	Ølosed cup: 36°C (96.8°F) [Pensky-Martens]
Flammability	:	Not available.
Lower and upper explosion limit/flammability limit	:	Not available.
Vapor pressure	:	

	N N	/apor Press	ure at 20°C	١	/apor pres	essure at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
to fuene	23.17	3.1					
n-butyl acetate	11.25	1.5	DIN EN 13016-2				
ethylbenzene	9.3	1.2					
xylene	6.7	0.89					
2-methoxy-1-methylethyl acetate	2.7	0.36					
hexamethylene-di-isocyanate	0.01	0.0013					
2,6-di-tert-butyl-p-cresol	0.01	0.0013					
3-isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate	0.0003	0.00004					
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# Section 9. Physical and chemical properties and safety characteristics

CI	laracteristics					
	examethylene diisocyanate, ligomers	0.000018	0.0000024	EU A.4		
3	-lsocyanatomethyl- 5,5-trimethylcyclohexyl ocyanate, oligomers	0	0	OECD 104		

## Relative vapor density

Density

: 1.064 g/cm<sup>3</sup> [DIN EN ISO 2811-1]

: Not available.

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#### Solubility(ies)

Media	Result	
cold water	Not soluble [OESO (TG 105)]	

## Partition coefficient: n-: Not applicable.

## octanol/water

## Auto-ignition temperature

Ingredient name	°C	°F	Method	
2-methoxy-1-methylethyl acetate	333	631.4		
n-butyl acetate	415	779	EU A.15	
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	430	806		
xylene	432	809.6		
ethylbenzene	432.22	810		
hexamethylene-di-isocyanate	454	849.2		
toluene	480	896		

## **Decomposition temperature** : Not available.

: Kinematic (room temperature): 61 mm<sup>2</sup>/s (61 cSt) [DIN EN ISO 3219] Kinematic (40°C (104°F)): 101 mm<sup>2</sup>/s (101 cSt) [DIN EN ISO 3219]

## Particle characteristics

Median particle size

Viscosity

: Not applicable.

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.



# Section 11. Toxicological information

## Information on toxicological effects

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>⊬</b> examethylene	LC50 Inhalation Dusts and mists	Rat	18500 mg/m <sup>3</sup>	1 hours
diisocyanate, oligomers			_	
xylene	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
	LD50 Intraperitoneal	Mouse	1548 mg/kg	-
	LD50 Intraperitoneal	Mouse	1548 mg/kg	-
	LD50 Intraperitoneal	Rat	2459 mg/kg	-
	LD50 Oral	Mouse	2119 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
	LD50 Subcutaneous	Rat	1700 mg/kg	-
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
-	LC50 Inhalation Vapor	Mouse	6 g/m <sup>3</sup>	2 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Oral	Guinea pig	4700 mg/kg	-
	LD50 Oral	Mouse	6 g/kg	-
	LD50 Oral	Rabbit	3200 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
ethylbenzene	LC50 Inhalation Gas.	Rabbit	4000 ppm	4 hours
-	LC50 Inhalation Vapor	Mouse	35500 mg/m <sup>3</sup>	2 hours
	LC50 Inhalation Vapor	Rat	55000 mg/m <sup>3</sup>	2 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Dermal	Rabbit	17800 uL/kg	-
	LD50 Intraperitoneal	Mouse	2624 uL/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hexamethylene diisocyanate, oligomers	Eyes - Moderate irritant	Rabbit	-	100 mg	-
, , ,	Skin - Moderate irritant	Rabbit	-	500 mg	-
xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 UI	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
,	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
ethylbenzene	Eyes - Severe irritant	Rabbit	_	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-

## **Sensitization**

Not available.

## **Mutagenicity**

Not available.

## **Carcinogenicity**

Not available.



# Section 11. Toxicological information

## Reproductive toxicity

Not available.

## **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	Category 3	-	Respiratory tract irritation
Hexamethylene diisocyanate, oligomers	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
n-butyl acetate	Category 3	-	Narcotic effects

## Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

#### Aspiration hazard

Name	Result	
5	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		

Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
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# Section 11. Toxicological information

Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

# Section 12. Ecological information

**Toxicity** 

Product/ingredient name	Result	Species	Exposure
xylene	Acute EC50 90 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute LC50 8.5 ppm Marine water	Crustaceans - Palaemonetes pugio - Adult	48 hours
	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 16940 µg/l Fresh water	Fish - Carassius auratus	96 hours
	Acute LC50 15700 µg/l Fresh water	Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 20870 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 19000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
n-butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
-	Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours
	Acute LC50 100000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 5400 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4900 µg/l Marine water	Algae - Skeletonema costatum	72 hours
	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 13.3 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 2.97 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 8.78 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute LC50 13.3 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute LC50 40000 μg/l Marine water	Crustaceans - Cancer magister -	48 hours
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# Section 12. Ecological information

	Zoea
Acute LC50 18.4 mg/l Fr	esh water Daphnia - Daphnia magna - 48 hours
	Neonate
Acute LC50 13.9 mg/l Fr	
	Neonate
Acute LC50 75000 μg/l F	
Acute LC50 5100 μg/I M	arine water Fish - Menidia menidia 96 hours
Acute LC50 4.3 ul/L Mar	ne water Fish - Morone saxatilis - 96 hours
	Juvenile (Fledgling, Hatchling,
	Weanling)
Acute LC50 4200 µg/l Fr	
Acute LC50 9090 µg/l Fr	
Acute LC50 9100 µg/l Fr	esh water Fish - Pimephales promelas 96 hours

## Persistence and degradability

Not available.

## **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
3-Isocyanatomethyl-	14.48	-	high
3,5,5-trimethylcyclohexyl			
isocyanate, oligomers			
Hexamethylene diisocyanate,	5.54	367.7	low
oligomers			
2-methoxy-1-methylethyl	1.2	-	low
acetate			
xylene	3.12	8.1 to 25.9	low
n-butyl acetate	2.3	-	low
ethylbenzene	3.6	-	low

## Mobility in soil

Soil/water partition : Not available. coefficient (K<sub>oc</sub>)

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



# Section 14. Transport information

		IMDO		
	ADR/RID	IMDG	IATA	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard	3	3	3	
class(es)				
Packing group	Ш	111	111	
Environmental hazards	No.	No.	No.	
Additional informat	tion			
ADR/RID	: <u>Tunnel code</u> (	D/E)		
MDG : <u>Emergency schedules</u> F-E, _S-E_ <u>MDG Code Segregation group</u> Not applicable				

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according	:	Not available.
to IMO instruments		

# Section 15. Regulatory information

National inventory	
Australia	: 🕅 components are listed or exempted.
Canada	: All components are listed or exempted.
China	: 🕅 components are listed or exempted.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: 🕅 components are listed or exempted.
Philippines	: 🕅 components are listed or exempted.
Republic of Korea	: 🕅 components are listed or exempted.
Taiwan	: 🕅 components are listed or exempted.
Thailand	: Not determined.
Turkey	: 🕅 components are listed or exempted.
United States	: All components are active or exempted.
Viet Nam	: 🕅 components are listed or exempted.

## Section 16. Other information

<u>History</u>	
Date of printing	: 9 December 2022
Date of issue/ Date of revision	: 9 December 2022
Date of previous issue	: 27 October 2022
Version	: 1.02
Unique ID	:
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>GOST = Gosudarstvennyy standart</li> <li>IATA = International Air Transport Association</li> <li>IBC = Intermediate Bulk Container</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>N/A = Not available</li> <li>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail</li> <li>SGG = Segregation Group</li> <li>UN = United Nations</li> </ul>

## Procedure used to derive the classification

Classification	Justification
AMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CHEMICALS THAT CAUSE SENSITIZATION - Chemical which cause skin sensitization SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	On basis of test data Calculation method Calculation method Calculation method Calculation method

#### ✓ Indicates information that has changed from previously issued version.

## Notice to reader

## FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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Date of issue/Date of revision	: 9-12-2022	Version : 1.02	
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