

SAFETY DATA SHEET

1500-FR HARDENER

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

1.1 Product identifier	
Product name	: 1500-FR HARDENER
SDS code	: 12150700D

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

	Identified uses	
Paint. Professional use I	ndustrial use	
	Uses advised against	
All other uses		
Product use	: Solvent borne coating for interior use.	
.3 Details of the supplie MAPAERO SAS 10, Avenue de la 09103 PAMIERS France e-mail address of perso	Cedex	
responsible for this SD		
.4 Emergency telephone	e number	

National advisory body/Poison Center		
Telephone number	: +353 (0)1 809 2566	
<u>Supplier</u>		
Telephone number	: +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30	
Hours of operation	:	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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1500-FR HARDENER

SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

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2.2 Label elements

Hazard pictograms



Signal word	:	Danger
Hazard statements	:	Highly flammable liquid and vapor. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing vapor.
Response	:	IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. 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: Get medical advice or attention.
Storage	:	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients		Hexamethylene diisocyanate, oligomers ethyl acetate
Supplemental label elements	:	Repeated exposure may cause skin dryness or cracking. Contains isocyanates. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	ner	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.



1500-FR HARDENER

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
rexamethylene diisocyanate, oligomers	REACH #: 01-2119485796-17 EC: 500-060-2 CAS: 28182-81-2	≥25 - ≤50	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]
ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≥20 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6	≥10 - ≤15	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥5 - ≤10	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119488216-32 EC: 905-588-0	≥5 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 5000 ppm	[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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

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: 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.



SECTION 4: First aid measures		
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 skin thoroughly with soap and water or use recognized skin cleanser. 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 necessary, call a poison center or physician. 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.	
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.	

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains Hexamethylene diisocyanate, oligomers. May produce an allergic reaction.

Over-exposure signs/symptoms



	1500-FR HARDENER	
SECTION 4: First aid measures		
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking	
Ingestion	: No specific data.	

4.3 Indication of any immediate medical attention and special treatment needed

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.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Highly 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 combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
5.3 Advice for firefighters	
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.



SECTION 6: Accidental release measures

6.1 Personal precautions, protective 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".
6.2 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).
6.3 Methods and materials fo	or c	ontainment 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	history of skin sensitizat which this product is use Avoid breathing vapor o appropriate respirator w and confined spaces un an approved alternative not in use. Store and us source. Use explosion- equipment. Use only no	onal protective equipment (see Se ion problems should not be emplo ed. Do not get in eyes or on skin or r mist. Use only with adequate ver hen ventilation is inadequate. Do less adequately ventilated. Keep i made from a compatible material, se away from heat, sparks, open fl proof electrical (ventilating, lighting on-sparking tools. Take precautior . Empty containers retain product se container.	yed in any process in or clothing. Do not ingest. Intilation. Wear not enter storage areas in the original container or kept tightly closed when ame or any other ignition and material handling) mary measures against
Advice on general occupational hygiene	handled, stored and pro eating, drinking and smo	oking should be prohibited in areas cessed. Workers should wash ha oking. Remove contaminated clotl ng eating areas. See also Section measures.	nds and face before hing and protective
Date of issue/Date of revision	: 9-12-2022	Version : 2	
Date of previous issue	: 27-10-2022	6/20	AkzoNobel

1500-FR HARDENER

SECTION 7: Handling and storage

7.2 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.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
rexamethylene diisocyanate, oligomers	NAOSH (Ireland, 5/2021). [isocyanates] Sensitization potential. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 0.02 mg/m ³ , (as NCO) 8 hours. OELV-15min: 0.07 mg/m ³ , (as NCO) 15 minutes.
ethyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 200 ppm 8 hours. OELV-15min: 400 ppm 15 minutes.
	OELV-15min: 1468 mg/m ³ 15 minutes. OELV-8hr: 734 mg/m ³ 8 hours.
2-methoxy-1-methylethyl acetate	NAOSH (Ireland, 8/2018). Absorbed through skin. OELV-8hr: 50 ppm 8 hours. OELV-8hr: 275 mg/m ³ 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 550 mg/m ³ 15 minutes.
n-butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
	Exposure Limit Values OELV-15min: 723 mg/m ³ 15 minutes. OELV-15min: 150 ppm 15 minutes. OELV-8hr: 241 mg/m ³ 8 hours. OELV-8hr: 50 ppm 8 hours.
Reaction mass of ethylbenzene and xylene	NAOSH (Ireland, 1/2020). Absorbed through skin. OELV-15min: 442 mg/m ³ 15 minutes. OELV-15min: 100 ppm 15 minutes. OELV-8hr: 221 mg/m ³ 8 hours. OELV-8hr: 50 ppm 8 hours.

Date of issue/Date of revision	: 9-12-2022	Version : 2	
Date of previous issue	: 27-10-2022	7/20	AkzoNobe

SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere 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. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required
	required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Hexamethylene diisocyanate,	DNEL	Long term	0.5 mg/m ³	Workers	Local
oligomers		Inhalation	4		
	DNEL	Short term	1 mg/m³	Workers	Local
- H - I I - I -	DNE	Inhalation	4.5		
ethyl acetate	DNEL	Long term Oral	4.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	37 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	367 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	367 mg/m ³	General	Systemic
		Inhalation	_	population	-
	DNEL	Short term	734 mg/m ³	General	Local
		Inhalation	-	population	
	DNEL	Short term	734 mg/m ³	General	Systemic
		Inhalation	Ũ	population	,
	DNEL	Long term	734 mg/m ³	Workers	Local
		Inhalation	Ũ		
	DNEL	Long term	734 mg/m ³	Workers	Systemic
		Inhalation	- J		,
	DNEL	Short term	1468 mg/	Workers	Local
		Inhalation	m ³		
	DNEL	Short term	1468 mg/	Workers	Systemic
		Inhalation	m ³		-) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
n-butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
			bw/day	population	-)
	DNEL	Long term Oral	2 mg/kg	General	Systemic
	5.122	Long tonn oral	bw/day	population	eyetenne
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
		Long tonin Donna	bw/day	population	Cyclonic
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
	DILLE	onort term Derma	bw/day	population	Cysternio
	DNEL	Long term Dermal	7 mg/kg	Workers	Systemic
	DNLL	Long term Derma	bw/day	WUIKEIS	Systemic
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
	DINEL		bw/day	VUINCIS	Systemic
	DNEL	Long term	12 mg/m ³	General	Systemic
	DINEL	Inhalation	r∠ mg/m	population	Systemic
	DNEL	Long term	35.7 mg/m ³	General	Local
	DINEL	Inhalation	55.7 mg/m ⁻		
			10 mc/m3	population	Sustamia
	DNEL	Long term Inhalation	48 mg/m ³	Workers	Systemic
e of issue/Date of revision	: 9-12-2022		Version	• 2	<u> </u>
e or issue/Date or revision	. 3-12-2022		version	. 4	
e of previous issue	:27-10-2022		8/20		AkzoNob

		1500-FR HARDENER			
ECTION 8: Exposure cont	rols/p	ersonal prote	ction		
	DNEL	Short term Inhalation	300 mg/m ³	General population	Local
	DNEL	Short term	300 mg/m³	General	Systemic
	DNEL	Long term Inhalation	300 mg/m³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Systemic
Reaction mass of ethylbenzene and xylene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	14.8 mg/m³		Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	108 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation		Workers	Local
	DNEL	Short term Inhalation	289 mg/m³	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
dibutyltin dilaurate	Fresh water	0.463 µg/l	-
-	Marine water	0.0463 µg/l	-
	Fresh water sediment	0.05 mg/kg	-
	Marine water sediment	0.005 mg/kg	-
	Soil	0.0407 mg/kg	-
	Sewage Treatment	100 mg/l	-
	Plant	-	

8.2 Exposure controls Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.	
Individual protection meas	<u>5</u>	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.	
Skin protection		

Date of issue/Date of revision: 9-12-2022Version: 2Date of previous issue: 27-10-20229/20AkzoNobel

SECTION 8: Exposure controls/personal protection

Hand protection	hemical-resistant, impervious gloves complying with an approved standard shown e worn at all times when handling chemical products if a risk assessment indication his is necessary. Considering the parameters specified by the glove manufactur heck during use that the gloves are still retaining their protective properties. It hould be noted that the time to breakthrough for any glove material may be ifferent for different glove manufacturers. In the case of mixtures, consisting of everal substances, the protection time of the gloves cannot be accurately stimated.	ites rer,
	he user must check that the final choice of type of glove selected for handling the roduct is the most appropriate and takes into account the particular conditions of se, as included in the user's risk assessment.	
Body protection	ersonal protective equipment for the body should be selected based on the task eing performed and the risks involved and should be approved by a specialist efore handling this product. When there is a risk of ignition from static electricity ear anti-static protective clothing. For the greatest protection from static ischarges, clothing should include anti-static overalls, boots and gloves. Refer t uropean Standard EN 1149 for further information on material and design equirements and test methods.	y,
Other skin protection	ppropriate footwear and any additional skin protection measures should be elected based on the task being performed and the risks involved and should be pproved by a specialist before handling this product.	Э
Respiratory protection	ased on the hazard and potential for exposure, select a respirator that meets th ppropriate standard or certification. Respirators must be used according to a espiratory protection program to ensure proper fitting, training, and other importa spects of use.	
Environmental exposure controls	missions from ventilation or work process equipment should be checked to nsure they comply with the requirements of environmental protection legislation. n some cases, fume scrubbers, filters or engineering modifications to the proces quipment will be necessary to reduce emissions to acceptable levels.	

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Colorless.
Odor	: Characteristic.
Odor threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flammability	: Not available.
Lower and upper explosion limit	: Not available.
Flash point	: Øosed cup: 17°C (62.6°F) [Pensky-Martens]
Auto-ignition temperature	:



1500-FR HARDENER

Ingredient name	°C °I	°F	Method	Method
methoxy-1-methylethyl acetate	333	631.4		
dibutyltin dilaurate	400	752	EU A.15	
n-butyl acetate	415	779	EU A.15	
ethyl acetate	426.67	800		
Reaction mass of ethylbenzene and xylene	432	809.6		
hexamethylene-di-isocyanate	454	849.2		
ecomposition temperature : Not a	available.			
H : Not a	available. [DIN l	EN 1262]		
	: Kinematic (room temperature): 21 mm²/s Kinematic (40°C): 51 mm²/s [DIN EN ISO			
olubility(ies) :	. ,	-	-	

Ν	Media	Result
¢	zold water	Not soluble [OESO (TG 105)]

Partition coefficient: n-octanol/ : Not applicable. water

:

Vapor pressure

	Va	Vapor Pressure at 20°C			por pressur	e at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
ethyl acetate	81.59	10.9				
n-butyl acetate	11.25	1.5	DIN EN 13016-2			
Reaction mass of ethylbenzene and 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				
Hexamethylene diisocyanate, oligomers	0.000018	0.0000024	EU A.4			
dibutyltin dilaurate	0.000000058	0.000000077	OECD 104			
ensity	: 1.021	g/cm³ [DIN	EN ISO 2811-1]			
apor density	: Not a	vailable.				
<u>article characteristics</u> Median particle size	: Not a	pplicable.				

SECTION	10:	Stability	and	reactivity
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10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.				
10.2 Chemical stability	: The product is stable.				
10.3 Possibility of hazardous reactions	: Under normal conditions	of storage and use, hazardous reac	tions will not occur.		
10.4 Conditions to avoid		es of ignition (spark or flame). Do no or expose containers to heat or sour			
Date of issue/Date of revision	: 9-12-2022	Version : 2			
Date of previous issue	: 27-10-2022	11/20	AkzoNobel		

SECTION 10: Stability and reactivity

10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous	:	Under normal conditions of storage and use, hazardous decomposition products

decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
⊬ examethylene	LC50 Inhalation Dusts and	Rat	18500 mg/m ³	1 hours
diisocyanate, oligomers	mists		_	
ethyl acetate	LC50 Inhalation Gas.	Rat	1600 ppm	8 hours
-	LC50 Inhalation Vapor	Mouse	45 g/m ³	2 hours
	LD50 Intraperitoneal	Mouse	709 mg/kg	-
	LD50 Oral	Guinea pig	5.5 g/kg	-
	LD50 Oral	Guinea pig	5500 mg/kg	-
	LD50 Oral	Mouse	4.1 g/kg	-
	LD50 Oral	Mouse	4100 mg/kg	-
	LD50 Oral	Rabbit	4935 mg/kg	-
	LD50 Oral	Rat	5620 mg/kg	-
	LD50 Subcutaneous	Guinea pig	3 g/kg	-
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
	LC50 Inhalation Vapor	Mouse	6 g/m ³	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	-
Reaction mass of ethylbenzene and xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
⊬ examethylene	Eyes - Moderate irritant	Rabbit	-	100 mg	-
diisocyanate, oligomers				_	
	Skin - Moderate irritant	Rabbit	-	500 mg	-
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Reaction mass of ethylbenzene and 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	
Conclusion/Summary	: Not available.				•
<u>Sensitization</u>					
Conclusion/Summary	: Not available.				
Mutagenicity					
ate of issue/Date of revision	: 9-12-2022	Ver	sion : 2		
ate of previous issue	: 27-10-2022	12/2	20		AkzoNobel

SECTION 11: Toxicological information

Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
<u>Teratogenicity</u>					
Conclusion/Summary	: Not available.				
Specific target organ toxicity (single exposure)					

Product/ingredient name	Category	Route of exposure	Target organs
Rexamethylene diisocyanate, oligomers	Category 3	-	Respiratory tract irritation
ethyl acetate	Category 3	-	Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
n-butyl acetate	Category 3	-	Narcotic effects
Reaction mass of ethylbenzene and xylene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene	Category 2	-	-

Aspiration hazard

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene	ASPIRATION HAZARD - Category 1

Information on the likely : Not available. routes of exposure

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	 Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.

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 nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness



SECTION 11: Toxicological information Skin contact : Adverse symptoms may include the following: irritation redness dryness cracking Ingestion : No specific data. Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure Potential immediate : Not available. effects : Not available. Potential delayed effects : Not available. Ingestion : Not available. Potential delayed effects : Not available. Potential chronic health effects : Not available. Potential chronic health effects : Not available. General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. 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.			1500-FR HARDENER			
irritation redness dryness cracking irritation redness dryness cracking Ingestion : No specific data. Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure Potential immediate : Not available. effects Potential delayed effects : Not available. Long term exposure Potential delayed effects : Not available. effects : Not available. Potential delayed effects : Not available. effects : Not available. Potential delayed effects : Not available. Potential chronic health effects : Not available. Conclusion/Summary : Not available. General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. 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.	SECTION 11: Toxico	lo	gical information			
Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure Potential immediate : Not available. effects Potential delayed effects : Not available. Long term exposure Potential immediate : Not available. effects Potential immediate : Not available. effects Potential delayed effects : Not available. effects Potential delayed effects : Not available. Potential chronic health effects : Not available. Potential chronic health effects : Not available. Potential chronic health effects : Not available. General : Not available. General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. 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.	Skin contact	irritation redness dryness				
Short term exposure Potential immediate : Not available. effects Potential delayed effects : Not available. Long term exposure - Potential immediate : Not available. effects - Potential delayed effects : Not available. effects - Potential delayed effects : Not available. Potential delayed effects : Not available. Potential chronic health effects : Not available. Potential chronic health effects : Not available. Conclusion/Summary : Not available. General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. 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.	Ingestion	:	No specific data.			
Potential immediate effects: Not available.Potential delayed effects: Not available.Long term exposure: Not available.Potential immediate effects: Not available.Potential delayed effects: Not available.Potential delayed effects: Not available.Potential chronic health effects: Not available.Not available.: Not available.Conclusion/Summary: Not available.General: Not available.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.	Delayed and immediate effect	<u>cts</u>	and also chronic effects from short and long term exposure			
effectsNot available.Potential delayed effects: Not available.Potential immediate effects: Not available.Potential delayed effects: Not available.Potential delayed effects: Not available.Potential chronic health effects: Not available.Potential chronic health effects: Not available.Conclusion/Summary: Not available.General: Not available.Carcinogenicity: Not available.Mutagenicity: No known significant effects or critical hazards.	<u>Short term exposure</u>					
Long term exposurePotential immediate effects: Not available.Potential delayed effects: Not available.Potential chronic health effects: Not available.Potential chronic health effects: Not available.Not available.: Not available.Conclusion/Summary: Not available.General: Not available.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.		:	Not available.			
Potential immediate effects: Not available.Potential delayed effects: Not available.Potential chronic health effects: Not available.Potential chronic health effects: Not available.Not available.: Not available.Conclusion/Summary: Not available.General: Not available.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.	Potential delayed effects	:	Not available.			
effects Potential delayed effects : Not available. Potential chronic health effects Not available. Not available. : Not available. Conclusion/Summary : Not available. General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. 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.	<u>Long term exposure</u>					
Potential chronic health effects Not available. Not available. Conclusion/Summary : Not available. General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. 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.		:	Not available.			
Not available.Conclusion/Summary: Not available.General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. 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.	Potential delayed effects	:	Not available.			
Conclusion/Summary: Not available.General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. 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.	Potential chronic health eff	ect	<u>s</u>			
General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. 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.	Not available.					
Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.	Conclusion/Summary	:	Not available.			
Mutagenicity : No known significant effects or critical hazards.	General	:	or dermatitis. Once sensitized, a severe allergic reaction may occur when			
	Carcinogenicity	:	No known significant effects or critical hazards.			
Reproductive toxicity : No known significant effects or critical hazards.	Mutagenicity	:	No known significant effects or critical hazards.			
	Reproductive toxicity	:	No known significant effects or critical hazards.			

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.

Product/ingredient name	Result	Species	Exposure
ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 1600000 µg/l Fresh water	Crustaceans - Asellus aquaticu	us 48 hours
	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pule	ex 48 hours
	Acute LC50 175000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 560000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 230000 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 295000 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
	Acute LC50 484000 µg/l Fresh water	Fish - Oncorhynchus mykiss -	96 hours
Date of issue/Date of revision	: 9-12-2022	Version : 2	
Date of previous issue	: 27-10-2022	14/20	AkzoNobel

SECTION 12: Ecological information

		Juvenile (Fledgling, Hatchling, Weanling)	
	Acute LC50 425300 µg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 230000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 12 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 2400 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - Pimephales promelas - Embryo	32 days
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
Reaction mass of ethylbenzene and xylene	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Conclusion/Summary	: Not available.	•	

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
rexamethylene diisocyanate, oligomers	5.54	367.7	low
ethyl acetate	0.68	30	low
2-methoxy-1-methylethyl acetate	1.2	-	low
n-butyl acetate	2.3	-	low
Reaction mass of ethylbenzene and xylene	3.12	8.1 to 25.9	low

12.4 Mobility in soil

Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.



SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: 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.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Disposal considerations	 Do not allow to enter drains or watercourses. Residues in empty containers should be neutralized with a decontaminant (see section 6). Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations	 Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
Special precautions	: 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

	ADR/RID	IMDG		ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263	
14.2 UN proper shipping name	PAINT	PAINT	PAINT	
14.3 Transport hazard class(es)	3	3	3	
Date of issue/Date of rev	ision : 9-12-2022	Versic	on :2	
Date of previous issue	: 27-10-2022	16/20		AkzoNobel

1500-FR HARDENER

		1500-FR HARDENER		
SECTION 14: Trans	port informa	ation		
14.4 Packing II group		11	11	
14.5No.Environmentalhazards		No.	No.	
Additional information		·		
ADR/RID IMDG	Tunnel coo	<u>ovisions</u> 640 (C) <u>de</u> (D/E) <u>y schedules</u> F-E, S-E		
		e Segregation group Not	applicable	
14.6 Special precautions four ser	upright and		always transport in closed conta ons transporting the product kno	
14.7 Maritime transport in bulk according to IMO instruments	: Not applica	ble.		
SECTION 15: Regul	atory inform	nation		
Annex XIV - List of subst Annex XIV None of the components Substances of very hig None of the components Annex XVII - Restrictions on the manufacture, placing on the market	s are listed. <u>h concern</u> s are listed.			
and use of certain dangerous substances, mixtures and articles <u>Other EU regulations</u>				
VOC	product labe	el and/or technical data she	C on VOC apply to this product. eet for further information.	Refer to the
VOC for Ready-for-Use Mixture	: Not available	e.		
Industrial emissions (integrated pollution prevention and control) Air	: Not listed			
Industrial emissions (integrated pollution prevention and control) Water	: Not listed			
Ozone depleting substar Not listed.	<u>nces (1005/2009/E</u>	<u>EU)</u>		
Prior Informed Concent	(PIC) (6/0/2012/E	IN		
Prior Informed Consent	(PIC) (649/2012/E	<u>U)</u>		

Date of issue/Date of revision	: 9-12-2022	Version : 2	
Date of previous issue	: 27-10-2022	17/20	AkzoNobel

1500-FR HARDENER

SECTION 15: Regulatory information

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

<u>Danger criteria</u>	
Category	
P5c	

National regulations

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Eurasian Economic Union : **Russian Federation inventory**: Not determined.

15.2 Chemical Safety : No Chemical Safety Assessment has been carried out.

Assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
5	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative
Barrier dama and data datab	

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Date of issue/Date of revision	: 9-12-2022	Version : 2	
Date of previous issue	: 27-10-2022	18/20	AkzoNobel

1500-FR HARDENER

SECTION 16: Othe	r information		
Classification		Justification	
Fam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335			On basis of test data Calculation method Calculation method Calculation method Calculation method
STOT SE 3, H336		Calculation method	
Full text of abbreviated H	<u>statements</u>	1	
H225 H226 H304 H312		Highly flammable liq Flammable liquid an May be fatal if swalle Harmful in contact w	nd vapor. owed and enters airways.
H315 H317 H319 H332		Causes skin irritation May cause an allerg Causes serious eye Harmful if inhaled.	ic skin reaction. irritation.
H335 H336 H373		May cause respirato May cause drowsine May cause damage exposure.	
H412 EUH066			fe with long lasting effects. may cause skin dryness or cracking.
Full text of classifications			
Acute Tox. 4 Aquatic Chronic 3 Asp. Tox. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT RE 2 STOT SE 3		ASPIRATION HAZA SERIOUS EYE DAM FLAMMABLE LIQUI FLAMMABLE LIQUI SKIN CORROSION SKIN SENSITIZATIO SPECIFIC TARGET EXPOSURE) - Cate	(LONG-TERM) - Category 3 ARD - Category 1 MAGE/ EYE IRRITATION - Category 2 IDS - Category 2 IDS - Category 3 /IRRITATION - Category 2 ON - Category 1 ORGAN TOXICITY (REPEATED
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Date of previous issue	: 27 October 202	22	
Version	: 2		
Unique ID	:		
Notice to reader			

Notice to reader

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Date of issue/Date of revision	: 9-12-2022	Version : 2	
Date of previous issue	: 27-10-2022	19/20	AkzoNobel

1500-FR HARDENER

SECTION 16: Other information

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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