

SAFETY DATA SHEET

A1500-M HARDENER

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

1.1 Product identifier	
Product name	: A1500-M HARDENER
SDS code	: 13115000D

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

	Identified uses
Paint. Professional use In	dustrial use
	Uses advised against
All other uses	
Product use	: Solvent borne coating for exterior use.
1.3 Details of the supplier	of the safety data sheet
MAPAERO SAS	
10, Avenue de la l 09103 PAMIERS (
France	Cedex
e-mail address of person responsible for this SDS	
1.4 Emergency telephone	number
National advisory body/F	Poison Center
Telephone number	: +44 (0)344 892 0111

<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] Fam. Liq. 3, H226 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.

Date	e of issue/Date of revision	: 9-12-2022	Version : 2	
Date	e of previous issue	: 27-10-2022	1/21	AkzoNobel

A1500-M 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.

÷

2.2 Label elements

Hazard pictograms



Signal word	:	Warning
Hazard statements	:	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	:	Fexamethylene diisocyanate, oligomers ethyl acetate 4-isocyanatosulphonyltoluene hexamethylene-di-isocyanate
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	:	
Special packaging requirem	en	<u>ts</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.



A1500-M HARDENER

SECTION 2: Hazards identification

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

SECTION 3: Composition/information on ingredients

Identifiers REACH #: 01-2119485796-17 EC: 500-060-2 CAS: 28182-81-2 REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6	% ≥25 - ≤50 ≥25 - ≤50	Classification Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335 Flam. Liq. 2, H225	Specific Conc. Limits, M-factors and ATEs ATE [Inhalation (dusts and mists)] = 1.5 mg/l	Type [1]
01-2119485796-17 EC: 500-060-2 CAS: 28182-81-2 REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6		Skin Sens. 1, H317 STOT SE 3, H335	(dusts and mists)]	[1]
01-2119475103-46 EC: 205-500-4 CAS: 141-78-6	≥25 - ≤50	Flam Lig 2 H225		
Index: 607-022-00-5		Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥15 - ≤20	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6	≥15 - ≤20	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
REACH #: 01-2119488216-32 EC: 905-588-0	≥3 - ≤5	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	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 5000 ppm	[1] [2]
EC: 223-810-8 CAS: 4083-64-1 Index: 615-012-00-7	≤0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 EUH014	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5% STOT SE 3, H335: C ≥ 5%	[1]
REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1	≤0.3	Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Inhalation (dusts and mists)] = 0.5 mg/l Resp. Sens. 1, H334: C $\geq 0.5\%$ Skin Sens. 1, H317: C $\geq 0.5\%$	[1]
		See Section 16 for the full text of the H statements declared above.		
	EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1 REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 REACH #: 01-2119488216-32 EC: 905-588-0 EC: 223-810-8 CAS: 4083-64-1 Index: 615-012-00-7 REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0	EC: 204-658-1 CAS: 123-86-4 Index: $607-025-00-11$ $\geq 15 - \leq 20$ REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 $\geq 15 - \leq 20$ REACH #: 01-2119488216-32 EC: 905-588-0 $\geq 3 - \leq 5$ EC: 223-810-8 CAS: 4083-64-1 Index: 615-012-00-7 ≤ 0.3 EC: 223-810-8 CAS: 4083-64-1 Index: 615-012-00-7 ≤ 0.3 REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1 ≤ 0.3	EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1EUH066REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6≥15 - ≤20Flam. Liq. 3, H226 STOT SE 3, H336REACH #: 01-2119488216-32 EC: 905-588-0≥3 - ≤5Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H312 Acute Tox. 4, H312 Stin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412EC: 223-810-8 CAS: 4083-64-1 Index: 615-012-00-7≤0.3Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 EUH014REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1≤0.3Acute Tox. 3, H331 Skin Irrit. 2, H319 Resp. Sens. 1, H334 Stor STOT SE 3, H335 EVH014REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1≤0.3Acute Tox. 3, H331 Skin Sens. 1, H314 Skin Sens. 1, H334 Stor STOT SE 3, H335	EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1≥15 - ≤20EUH066-REACH #: 01-2119475791-29 CC : 203-603-9 CAS: 108-65-6≥15 - ≤20Flam. Liq. 3, H226 STOT SE 3, H336-REACH #: 01-2119488216-32 EC: 905-588-0≥3 - ≤5Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H312 Acute Tox. 4, H312 STOT SE 3, H335 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 5000 ppmEC: 223-810-8 CAS: 4083-64-1 Index: 615-012-00-7≤0.3Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 EUH014Skin Irrit. 2, H315 C ≥ 5% STOT SE 3, H335 C ≥ 5%REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1≤0.3Acute Tox. 3, H331 Skin Irrit. 2, H319 Resp. Sens. 1, H334 StoT SE 3, H335 Eye Irrit. 2, H319 Resp. Sens. 1, H334 StoT SE 3, H335 Eye Irrit. 2, H317 STOT SE 3, H335ATE [Inhalation (dusts and mists)] = 0.5 mg/l Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335

Date of previous issue

: 9-12-2022 : 27-10-2022



A1500-M HARDENER

SECTION 3: Composition/information on ingredients

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>

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

4.1 Description of first aid measures

Eye contact	:	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 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 non-

Date of issue/Date of revision	: 9-12-2022	Version : 2	
Date of previous issue	: 27-10-2022	4/21	AkzoNobel

A1500-M HARDENER

SECTION 4: First aid measures

allergic 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, 4-isocyanatosulphonyltoluene, hexamethylene-di-isocyanate. May produce an allergic reaction.

Over-exposure signs/symptoms

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

: Use dry chemical, CO ₂ , water spray (fog) or foam.
: Do not use water jet.
rom the substance or mixture
: 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.
: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

5.3 Advice for firefighters

Date of issue/Date of revision	: 9-12-2022	Version : 2	
Date of previous issue	: 27-10-2022	5/21	AkzoNobel

SECTION 5: Firefighting measures				
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 for	r 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	: See Section 1 for emergency contact information.
sections	See Section 8 for information on appropriate personal protective equipmen
	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



SECTION 7: Handling and storage

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.

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

<u>Danger criteria</u>

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

7.3 Specific end use(s)

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

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/ingredie	ent name	Exposure limit values				
		EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates, all, except methyl isocyanate] Inhalation sensitizer. STEL: 0.07 mg/m ³ , (as -NCO) 15 minutes. TWA: 0.02 mg/m ³ , (as -NCO) 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 400 ppm 15 minutes.				
n-butyl acetate		TWA: 200 ppm 8 hours. STEL: 1468 mg/m ³ 15 minutes. TWA: 734 mg/m ³ 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020).				
Date of issue/Date of revision	: 9-12-2022	Version : 2				
Date of previous issue	: 27-10-2022	7/21 AkzoNobel				

	A1500-M HARDENER		
SECTION 8: Exposure controls/	personal protection		
	STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.		
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed		
	through skin. STEL: 548 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 274 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes.		
Reaction mass of ethylbenzene and xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 441 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.		
4-isocyanatosulphonyltoluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates, all, except methyl isocyanate] Inhalation sensitizer. STEL: 0.07 mg/m ³ , (as -NCO) 15 minutes. TWA: 0.02 mg/m ³ , (as -NCO) 8 hours.		
hexamethylene-di-isocyanate	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates, all, except methyl isocyanate] Inhalation sensitizer. Notes: as NCO STEL: 0.07 mg/m ³ , (as -NCO) 15 minutes. TWA: 0.02 mg/m ³ , (as -NCO) 8 hours.		
procedures atmosphere of of the ventilat protective eq the following: the assessme limit values a atmospheres of exposure t (Workplace a for the measu	t contains ingredients with exposure limits, personal, workplace or biological monitoring may be required to determine the effectiveness tion or other control measures and/or the necessity to use respiratory uipment. Reference should be made to monitoring standards, such as E European Standard EN 689 (Workplace atmospheres - Guidance for ent of exposure by inhalation to chemical agents for comparison with and measurement strategy) European Standard EN 14042 (Workplace e - Guide for the application and use of procedures for the assessment to chemical and biological agents) European Standard EN 482 atmospheres - General requirements for the performance of procedures urement of chemical agents) Reference to national guidance or methods for the determination of hazardous substances will also be		

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
	DNEL	Long term	0.5 mg/m ³	Workers	Local
oligomers		Inhalation			
C .	DNEL	Short term	1 mg/m ³	Workers	Local
		Inhalation	-		
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	Workers	Systemic
		_	bw/day		
	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	_	population	
te of issue/Date of revision :	9-12-2022		Version	:2	
te of previous issue :	27-10-2022		8/21		AkzoNobe

		A1500-M HARDENER			
ECTION 8: Exposure cont	rols/p	ersonal prote	ction		
	DNEL	Long term Inhalation	734 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	734 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Local
	DNEL	Short term Inhalation	1468 mg/ m ³	Workers	Systemic
n-butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
	DNEL	Long term Oral	bw/day 2 mg/kg bw/day	population General population	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	35.7 mg/m³	General population	Local
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	300 mg/m ³	General population	Local
	DNEL	Short term	300 mg/m ³	General	Systemic
	DNEL	Inhalation Long term	300 mg/m ³	population Workers	Local
	DNEL	Inhalation Short term Inhalation	600 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m ³	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/m ³	General population	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	289 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	289 mg/m³	Workers	Systemic
4-isocyanatosulphonyltoluene	DNEL	Long term Oral	0.46 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.46 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.8 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0.92 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.24 mg/m ³	Workers	Systemic
hexamethylene-di-isocyanate	DNEL	Long term	0.035 mg/	Workers	Local
	-2022		Version	:2	Alizablaha
te of previous issue : 27-1	0-2022		9/21		AkzoNobe

	A1500-M HARDENER							
S	SECTION 8: Exposure controls/personal protection							
			DNEL	Inhalation Short term Inhalation	m ³ 0.07 mg/m ³	Workers	Local	
<u>P</u>	NECs No PNECs available.							
8.2	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.							
<u>lr</u>	ndividual protection measu	res						
	Hygiene measures	k / (before eating Appropriate to Contaminated contaminated	forearms and face th , smoking and using echniques should be d work clothing shoul l clothing before reus close to the workstati	the lavatory a used to remo d not be allov ing. Ensure t	and at the end of th ove potentially cont ved out of the work	e working period. aminated clothing. place. Wash	
	Eye/face protection	ຊ (ເ	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							
	Hand protection							
		F	product is the	st check that the final most appropriate an led in the user's risk	nd takes into a			
	Body protection	k k v c	being perform before handli vear anti-stat lischarges, c European Sta	ective equipment for ned and the risks invo ng this product. Whe ic protective clothing lothing should includ- andard EN 1149 for fu and test methods.	olved and sho on there is a r . For the gre e anti-static o	ould be approved b isk of ignition from atest protection fro veralls, boots and	y a specialist static electricity, m static gloves. Refer to	
	Other skin protection	5	elected base	botwear and any add ed on the task being a specialist before ha	performed an	d the risks involved		
	Respiratory protection	a r	appropriate s	hazard and potential tandard or certification otection program to e e.	on. Respirato	rs must be used ad	ccording to a	
	Environmental exposure controls	e I	ensure they c n some case	om ventilation or work comply with the requir s, fume scrubbers, fi Il be necessary to rec	rements of er Iters or engin	vironmental protect eering modification	tion legislation. Is to the process	
	· · · · · · · · · · · · · · · · · · ·		0 40 0000			<u> </u>		

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	: 🗭 losed cup: 28°

: Closed cup: 28°C (82.4°F) [Pensky-Martens]

Auto-ignition temperature

Ingredient name	°C	°F	Method	
methoxy-1-methylethyl acetate	333	631.4		
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		
chlorobenzene	590	1094		

: Not available.

2

: Not available. [DIN EN 1262]

Viscosity : Kinematic (room temperature): 1138 mm²/s [DIN EN ISO 3219] Kinematic (40°C): 101 mm²/s [DIN EN ISO 3219] Solubility(ies) ÷

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

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

:

Vapor pressure

pН

	Vapor Pressure at 20°C		V	Vapor pressure		
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			
chlorobenzene	8.8	1.2				
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				
tosyl chloride	0.00098	0.00013				
e of issue/Date of revision	: 9-12-20)22		Version : 2		
e of previous issue	:27-10-2	2022		11/21		AkzoNob

SECTION 9: Physica	ECTION 9: Physical and chemical properties					
4-isocyanatosulphonyltoluene	0.00019	0.000025				
Hexamethylene diisocyanate, oligomers	0.000018	0.0000024	EU A.4			
Density	Density : 0.967 g/cm³ [DIN EN ISO 2811-1]					
Vapor density	: Not	available.				
Particle characteristics						
Median particle size	: Not	applicable.				

A1500-M HARDENER

SECTION 10: Stabilit	SECTION 10: Stability and reactivity				
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 reactions will not occur.				
10.4 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.				
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials				
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous 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
Hexamethylene	LC50 Inhalation Dusts and	Rat	18500 mg/m ³	1 hours
diisocyanate, oligomers	mists		Ŭ	
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	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
ethylbenzene and xylene				
4-isocyanatosulphonyltoluene	LD50 Intraperitoneal	Rat	775 mg/kg	-
e of issue/Date of revision	: 9-12-2022	Version	:2	
e of previous issue	: 27-10-2022	12/21		AkzoNob

A1500-M HARDENER

SECTION 11: Toxicological information

	LD50 Oral	Rat	2234 mg/kg	-		
hexamethylene-di- isocyanate	LC50 Inhalation Dusts and mists	Rat	124 mg/m³	4 hours		
	LC50 Inhalation Dusts and mists	Rat	462 mg/m³	4 hours		
	LD50 Dermal	Rabbit	570 uL/kg	-		
	LD50 Intravenous	Mouse	5600 µg/kg	-		
	LD50 Oral	Mouse	350 mg/kg	-		
	LD50 Oral	Rat	710 uL/kg	-		

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hexamethylene	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	Eyes - Mild irritant	Rabbit	-	87 mg	-
ethylbenzene and xylene					
	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	
4-isocyanatosulphonyltoluene	Eyes - Moderate irritant	Rabbit	-	100 UI	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				UI	

Conclusion/Summary	: Not available.
Sensitization	
Conclusion/Summary	: Not available.
Mutagenicity	
Conclusion/Summary	: Not available.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.

Specific target organ toxicity (single exposure)

Product/ing	redient name	Category	Route of exposure	Target organs
Fexamethylene diisocyanate	e, oligomers	Category 3	-	Respiratory tract irritation
ethyl acetate		Category 3	-	Narcotic effects
n-butyl acetate		Category 3	-	Narcotic effects
2-methoxy-1-methylethyl ace	etate	Category 3	-	Narcotic effects
Reaction mass of ethylbenze	ene and xylene	Category 3	-	Respiratory tract irritation
4-isocyanatosulphonyltoluen	е	Category 3	-	Respiratory tract irritation
hexamethylene-di-isocyanate	e	Category 3	-	Respiratory tract irritation
ate of issue/Date of revision	: 9-12-2022	Ver	sion :2	
ate of previous issue	: 27-10-2022	13/2	21	AkzoNob

SECTION 11: Toxicological information

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 routes of exposure	:	Not available.	
Potential acute health effects	<u>.</u>		
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 phy	sio	al, 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	
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			
<u>Short term exposure</u> Potential immediate effects	:	Not available.	
Potential delayed effects	:	Not available.	
Long term exposure			
Potential immediate effects	:	Not available.	
Potential delayed effects	:	Not available.	
Potential chronic health effe	ect	<u>S</u>	
Not available.			



SECTION 11: Toxicological information

	•
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.
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 aquaticus	48 hours
	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	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
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 425300 µg/l Fresh water	Fish - Oncorhynchus mykiss -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	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

: Not available.

12.2 Persistence and degradability

Conclusion/Summary	: Not available.		
Date of issue/Date of revision	: 9-12-2022	Version : 2	
Date of previous issue	: 27-10-2022	15/21	AkzoNobel

A1500-M HARDENER

SECTION 12: Ecological information

Product/ingredient name BCF LogPow Potential Hexamethylene 5.54 367.7 low diisocyanate, oligomers ethyl acetate 0.68 30 low n-butyl acetate 2.3 low 2-methoxy-1-methylethyl 1.2 low acetate Reaction mass of 3.12 8.1 to 25.9 low ethylbenzene and xylene hexamethylene-di-isocyanate 0.02 57.63 low

12.3 Bioaccumulative potential

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 contai	ning organic solvents or other hazar	dous substances
Da	te of issue/Date of revision	: 9-12-2022	Version : 2	
Da	te of previous issue	: 27-10-2022	16/21	AkzoNobel

SECTION 13: Disposal considerations

•	
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	IATA
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
14.4 Packing group	111		111	
14.5 Environmental hazards	No.		No.	No.
Additional information	tion		·	
ADR/RID IMDG		packagings up to 4 <u>Tunnel code</u> (D/E) <u>Emergency sched</u> <u>Viscous liquid exc</u> packagings up to 4		
14.6 Special precau user	itions for			ort in closed containers that are g the product know what to do in
14.7 Maritime trans bulk according to II instruments	•	Not applicable.		



nmental regulations/legislation specific for the substance or mixture
ces subject to authorization
re listed.
concern
re listed.
: Ks from August 24 2023 adequate training is required before industrial or professional use.
: The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.
: Not available.
: Not listed
: Not listed
es (1005/2009/EU)
<u>C) (649/2012/EU)</u>
<u>nts</u>
der the Seveso Directive.
. The information contained in this select data sheet data and the selection of the selecti
: 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 app to the use of this product at work.
on List Schedules I, II & III Chemicals

Montreal Protocol



A1500-M HARDENER

SECTION 15: Regulatory information

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 acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
,	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

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

Classification	Justification
Fam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method

Full text of abbreviated H statements

			1
⊮ 225		Highly flammable liquid and vapor.	
H226		Flammable liquid and vapor.	
H304		May be fatal if swallowed and enters airways.	
H312		Harmful in contact with skin.	
H314		Causes severe skin burns and eye damage.	
H315		Causes skin irritation.	
H317		May cause an allergic skin reaction.	
H319		Causes serious eye irritation.	
H331		Toxic if inhaled.	
H332		Harmful if inhaled.	
H334		May cause allergy or asthma symptoms or breathing difficulties if	
		inhaled.	5
H335		May cause respiratory irritation.	
H336		May cause drowsiness or dizziness.	
H373		May cause damage to organs through prolonged or repeated	
		exposure.	a or ropoutou
		onpool of	
Date of issue/Date of revision	: 9-12-2022	Version : 2	1
			AkzoNobel
Date of previous issue	:27-10-2022	19/21	ARZUNUDEI

	A1500-M HARDENER
SECTION 16: Othe	r information
H411 H412 EUH014 EUH029 EUH066	Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Reacts violently with water. Contact with water liberates toxic gas. Repeated exposure may cause skin dryness or cracking.
Full text of classifications	[CLP/GHS]
Acute Tox. 3 Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Resp. Sens. 1 Skin Corr. 1B Skin Irrit. 2 Skin Sens. 1 STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 RESPIRATORY SENSITIZATION - Category 1 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
Date of printing	: 9 December 2022
Date of issue/ Date of revision	: 9 December 2022
Date of previous issue	: 27 October 2022
Version	: 2
Unique ID	:

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.

Brand names mentioned in this data sheet are trademarks of or are licensed to Akzo Nobel.



A1500-M HARDENER

