

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 u	se Industrial use
Industrial applications, Professional applications.	
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 Rij	ole CS30098
09103 PAMIERS Ce	
France	
e-mail address of person responsible for this SDS	: PSRA_PAMIERS@akzonobel.com
Original preparation date	: 10/1/2022

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number	: Zehir Danışma Merkezi-UZEM-Ankara- : 114
<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

Classification according to regulation SEA: RG.-11/12/2013-28848

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 SEA: RG.-11/12/2013-28848.

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

Date of revision

A1500-M HARDENER

A1500-M HARDENER			
SECTION 2: Hazards identification			
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	: F 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 or water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYE Rinse cautiously with water for several minutes. Remove contact lenses, if preser and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.	ES:	
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		
	4-isocyanatosulphonyltoluene		
	hexamethylene-di-isocyanate		
Supplemental label elements	: Repeated exposure may cause skin dryness or cracking. Contains isocyanates. May produce an allergic reaction.		
Special packaging requirem	<u>ents</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	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	а	
Other hazards which do not result in classification	: None known.		

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture			
Product/ingredient name	Identifiers	%	SEA: RG11/12/2013-28848	Туре
rexamethylene diisocyanate, oligomers	EC: 500-060-2 CAS: 28182-81-2	≥25 - ≤50	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	[1]
ethyl acetate	EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≥25 - ≤50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
n-butyl acetate	EC: 204-658-1	≥10 - ≤25	Flam. Liq. 3, H226	[1] [2]
Date of revision	:9-12-2022 Or	iginal preparatio	n date : 1-10-2022 Version	:1.03 2/1

A1500-M HARDENER

SECTION 3: Compos	SECTION 3: Composition/information on ingredients			
	CAS: 123-86-4 Index: 607-025-00-1		STOT SE 3, H336 EUH066	
2-methoxy-1-methylethyl acetate	EC: 203-603-9 CAS: 108-65-6	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
Reaction mass of ethylbenzene and xylene	-	≤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	[1] [2]
4-isocyanatosulphonyltoluene	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	[1]
hexamethylene-di-isocyanate	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	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

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 or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

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	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash 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.

A1500-M HARDENER

SECTION 4: First aid	d measures
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 symptom	ms and effects, both acute and delayed
Potential acute health effe	
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.
Over-exposure signs/sym	
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 immed	liate medical attention and special treatment needed
A.3 Indication of any immed 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: Firefigh	nting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.

5.2 Special hazards arising from the substance or mixture

: Do not use water jet.

Unsuitable extinguishing

media

Date of revision	: 9-12-2022	Original preparation date	:1-10-2022	Version :	1.03 4/16
------------------	-------------	---------------------------	------------	-----------	-----------

A1500-M HARDENER

SECTION 5: Firefighting measures		
Hazards from 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.	
Hazardous thermal decomposition 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: Acciden	tal release measures	

6.1 Personal precautions, protective equipment and emergency procedures

o. i reisoliai precautions, pro	lective 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	containment 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.

A1500-M HARDENER

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
ethyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 400 ppm 15 minutes. STEL: 1468 mg/m ³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m ³ 8 hours.
n-butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
2-methoxy-1-methylethyl acetate	TR ISGGM OEL (Turkey, 12/2013). Absorbed through skin. TWA: 275 mg/m ³ 8 hours.
Date of revision : 9-12-2022	2 Original preparation date : 1-10-2022 Version : 1.03 6/16

A1500-M HARDENER

Reaction mass of ethylbenzene and xylene TWA: 60 ppm 6 hours. STEL: 500 ppm 15 minutes. STEL: 500 ppm 15 minutes. STEL: 500 ppm 15 minutes. hexamethylene-di-isocyanate TWA: 60 ppm 16 minutes. STEL: 422 mg/m 16 minutes. STEL: 422 mg/m 16 minutes. STEL: 400 ppm 15 minutes. STEL: 400 ppm 16 minutes. ACGIH TLV (United States, 12022). TWA: 0.005 mg/m 18 hours. TWA: 0.005 mg/m 18 hours. TWA: 0.005 mg/m 18 hours. TWA: 0.005 mg/m 18 hours. STEL: 100 ppm 16 minutes. ACGIH TLV (United States, 12022). TWA: 0.005 mg/m 18 hours. TWA: 0.005 mg/m 18 hours. Recommended monitoring If this product contains ingredients with exposure limits, personal, workplace atmospheres - Guide for the application and use of procedures informance of procedure atmospheres - Guide for the application and use of procedures for comparison with limit values and messurement strategy). European Standard EN 16402 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological aperits). Faterence to national guidance documents for methods for the determination of hazardous substances will also be required. 22.Exposure controls Appropriate engineering controls to keep worker exposure to athorne controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosive interve potentially contaminated cohing controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosive interve potential products, before eating, snoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to renove potential products, gaseser ordus. If contact is passible, the follo	SECTION 8: Exposure	e contro	ls/personal prote	ction		
hexamethylene-di-isocyanate ACGIH TLV (United States, 12022). TWX: 0.005 ppm 8 hours. TWA: 0.005 ppm 8 hours. TWA: 0.005 ppm 8 hours. 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 4422 (Workplace atmospheres - Gaide and biological agents). Furopean Standard EN 4422 (Workplace atmospheres - Gaide and biological agents). Furopean Standard EN 4422 (Workplace atmospheres - Gaide and the agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required. 22 Exposure controls Appropriate engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Individual protection measures Wash hands, forearms and face thoroughly after handling chemical products. Appropriate techniques should be used to remove potentially contaminated clothing Contaminated work clothing should not be allowed out of the workplace. Wash contaminated work clothing should not be allowed out of the workplace. Wash assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be work, unless the easessment indicates a higher degree of protection: chemical splash goggles.			TWA: 50 ppm 8 l STEL: 550 mg/m STEL: 100 ppm 7 TR ISGGM OEL (TWA: 221 mg/m ² TWA: 50 ppm 8 l STEL: 442 mg/m	nours. ³ 15 minutes. 5 minutes. Furkey, 12/2013). Abs 8 hours. nours. 3 15 minutes.	orbed through skin.	
procedures 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 489 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy). European Standard EN 482 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required. #2 Exposure controls Appropriate engineering controls to keep worker exposure to airborme contraminants below any recommended or statutory limits. The engineering controls dates are close to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Individual protection measures Y 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 working period. Appropriate techniques should be used to remove potentially contaminated clothing contaminated includes this is necessary to avoid exposure to alsolate. Wash contaminated work clothing should hore beal work approved standard should be work unless the assessment indicates a higher degree of protection : chemical splash goggles. Skin protection Safety eyewear complying with an approved standard should be wore at all times when	hexamethylene-di-isocyanate		ACGIH TLV (Unit TWA: 0.03 mg/m	ed States, 1/2022). ³ 8 hours.		
Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.Individual protection 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: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicate this is necessary. Considering the parameters specified by the glove manufacturer check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.Body protection: Personal protective equipment for the body should be selected based on the t		atmosphe of the ver protective the follow the asses limit value atmosphe of expose (Workpla for the m documen	ere or biological monitorin ntilation or other control m e equipment. Reference s ring: European Standard sement of exposure by inf es and measurement stra eres - Guide for the applic ure to chemical and biolog ce atmospheres - Genera easurement of chemical a	g may be required to d easures and/or the new should be made to more EN 689 (Workplace at alation to chemical age tegy) European Standa ation and use of proce- nical agents) European I requirements for the agents) Reference to n	etermine the effective cessity to use respirat itoring standards, suc- mospheres - Guidance ents for comparison w ard EN 14042 (Workp dures for the assessm of Standard EN 482 performance of proce- lational guidance	ory ch as e for rith lace nent dures
controlsventilation or other engineering controls to keep worker exposure to airborne controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.Individual protection 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 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: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates the is is necessary. Considering the parameters specified by the glove manufacturer check during use that the glowes are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves count be accurately estimated.Body protection: Personal protective equipment for the body should be approved by a specialist before handling this product. When there is a risk of ignition from static edscharges, clothing should include anti-static overalls, boots and gloves. Refer to European Sta	3.2 Exposure controls					
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 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 gogles.Skin protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer check during use that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection mise of the gloves cannot be accurately estimated.Body protection: Personal protective equipment for the body should be approved by a specialist before handling this product. When there is a risk of ignition from static eldicharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and text methods.		ventilatic contamir controls	n or other engineering co nants below any recomme also need to keep gas, va	ntrols to keep worker e inded or statutory limits por or dust concentrati	exposure to airborne s. The engineering ions below any lower	
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: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.						
 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 Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Body protection Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. 	Hygiene measures	before e Appropri Contami contami	ating, smoking and using ate techniques should be nated work clothing shoul nated clothing before reus	the lavatory and at the used to remove potent d not be allowed out of ing. Ensure that eyewa	end of the working pe tially contaminated clo the workplace. Wasł	thing า
 Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. 	Eye/face protection	assessm gases or unless th	nent indicates this is nece dusts. If contact is possi ne assessment indicates a	ssary to avoid exposure ble, the following prote	e to liquid splashes, m ction should be worn,	ists,
 be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. 	Skin protection					
being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.	Hand protection	be worn this is ne check du should b different several s	at all times when handling cessary. Considering the uring use that the gloves a e noted that the time to be for different glove manufa substances, the protection	chemical products if a parameters specified re still retaining their preakthrough for any glo acturers. In the case of	a risk assessment indi by the glove manufac rotective properties. I we material may be f mixtures, consisting	cates turer, t
Date of revision : 9-12-2022 Original preparation date : 1-10-2022 Version : 1.03 7/1	Body protection	being pe before h wear ant discharg Europea	rformed and the risks inve andling this product. Whe i-static protective clothing es, clothing should includ n Standard EN 1149 for fi	olved and should be ap on there is a risk of igni . For the greatest prote e anti-static overalls, be	proved by a specialist tion from static electri ection from static oots and gloves. Refe	t city,
	Date of revision	: 9-12-202	2 Original preparation date	: 1-10-2022	Version : 1.03	7/1

A1500-M HARDENER

SECTION 8: Exposur	SECTION 8: Exposure controls/personal protection				
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. 				
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.				
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment 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.

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

Auto-ignition temperature

Flash point

Ingredient name	°C	°F	Method
Prinethoxy-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	

Decomposition temperature : Not available.

÷

5

: Not available. [DIN EN 1262]

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

Solubility(ies)

Viscosity

pН

	Media	Result
	∞old water	Not soluble [OESO (TG 105)]
	Partition coefficient: n-octanol/ : Not applicable. water	
V	apor pressure	

A1500-M HARDENER

SECTION 9: Physical and chemical properties

	V	Vapor Pressure at 20°C			/apor pres	sure 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			
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				
4-isocyanatosulphonyltoluene	0.00019	0.000025				
Hexamethylene diisocyanate, oligomers	0.000018	0.0000024	EU A.4			

- Vapor density **Particle characteristics** Median particle size
- : 0.967 g/cm3 [DIN EN ISO 2811-1]
- : Not available.

: Not applicable.

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			
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	-
e of revision	: 9-12-2022 Original preparati	on date : 1-10-2	2022	/ersion : 1.03

A1500-M HARDENER

SECTION 11: Toxicological information

gioa			
LD50 Oral	Rabbit	4935 mg/kg	-
LD50 Oral	Rat	5620 mg/kg	-
LD50 Subcutaneous	Guinea pig	3 g/kg	-
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		-
LD50 Oral	Guinea pig	4700 mg/kg	-
LD50 Oral	Mouse		-
LD50 Oral	Rabbit		-
LD50 Oral	Rat		-
LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
LD50 Intraperitoneal	Rat	775 mg/kg	-
LD50 Oral	Rat		-
LC50 Inhalation Dusts and	Rat		4 hours
mists		Ū.	
LC50 Inhalation Dusts and	Rat	462 mg/m ³	4 hours
mists		Ū	
LD50 Dermal	Rabbit	570 uL/kg	-
LD50 Intravenous	Mouse		-
LD50 Oral	Mouse		-
LD50 Oral	Rat	710 uĽ/kg	-
	LD50 Oral LD50 Oral LD50 Subcutaneous LC50 Inhalation Gas. LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Oral LD50 Oral LD50 Oral LC50 Inhalation Gas. LD50 Intraperitoneal LD50 Oral LC50 Inhalation Dusts and mists LC50 Inhalation Dusts and mists LC50 Inhalation Dusts and mists LD50 Dermal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Oral	LD50 OralRabbitLD50 OralRatLD50 SubcutaneousGuinea pigLC50 Inhalation Gas.RatLC50 Inhalation VaporMouseLD50 DermalRabbitLD50 IntraperitonealMouseLD50 OralGuinea pigLD50 OralRabbitLD50 OralRabbitLD50 OralRabbitLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 IntraperitonealRatLD50 Inhalation Dusts andRatmistsLD50 DermalLD50 DermalRabbitLD50 IntravenousMouseLD50 OralMouse	LD50 OralRabbit4935 mg/kgLD50 OralRat5620 mg/kgLD50 SubcutaneousGuinea pig3 g/kgLC50 Inhalation Gas.Rat390 ppmLC50 Inhalation VaporMouse6 g/m³LD50 DermalRabbit>17600 mg/kgLD50 IntraperitonealMouse1230 mg/kgLD50 OralGuinea pig4700 mg/kgLD50 OralGuinea pig4700 mg/kgLD50 OralRat10768 mg/kgLD50 OralRat10768 mg/kgLD50 OralRat5000 ppmLD50 IntraperitonealRat10768 mg/kgLD50 IntraperitonealRat10768 mg/kgLD50 IntraperitonealRat2234 mg/kgLD50 IntraperitonealRat2234 mg/kgLD50 IntraperitonealRat124 mg/m³LD50 IntraperitonealRat462 mg/m³LD50 Inhalation Dusts andRat462 mg/m³mistsLD50 DermalRat570 uL/kgLD50 DermalRabbit570 uL/kgLD50 IntravenousMouse5600 µg/kgLD50 OralSoo oralSoo oralLD50 DermalRat570 uL/kgLD50 OralMouse5600 µg/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 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	
4-isocyanatosulphonyltoluene	Eyes - Moderate irritant	Rabbit	-	100 UI	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				UI	

Conclusion/Summary	:	Not available.	
<u>Sensitization</u>			
Conclusion/Summary	:	Not available.	
<u>Mutagenicity</u>			
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)			

A1500-M HARDENER

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
Hexamethylene diisocyanate, oligomers	Category 3	-	Respiratory tract irritation
ethyl acetate	Category 3	-	Narcotic effects
n-butyl acetate	Category 3	-	Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
Reaction mass of ethylbenzene and xylene	Category 3	-	Respiratory tract irritation
4-isocyanatosulphonyltoluene	Category 3	-	Respiratory tract irritation
hexamethylene-di-isocyanate	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 aller skin reaction.	gic
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
Skin contact :	Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	No specific data.

<u>Delayed and immediate effects and also chronic effects from short and long term exposure</u> <u>Short term exposure</u>

Date	of revision	
Duto		

A1500-M HARDENER

SECTION 11: Toxicological information

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>8</u>
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.
Reproductive toxicity	:	No known significant effects or critical hazards.
Other information	:	Not available.

SECTION 12: Ecological information

12.1 Toxicity

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 available.

12.2 Persistence and degradability

Conclusion/Summary	: Not available.
--------------------	------------------

A1500-M HARDENER

SECTION 12: Ecological information

12.3 Bioaccumulative potential

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

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: 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 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).

Do not allow to enter drains or watercourses.

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.

13.1 Waste treatment methods

Product

Methods of Disposal: The generation of waste should be avoided or minimised 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.

	ADR/RID	IMDG	IATA	
14.1 UN number	UN1263	UN1263	UN1263	
14.2 UN proper shipping name	PAINT	PAINT	PAINT	
Date of revision	: 9-12-2022	Original preparation date : 1-10-2	022 Version : 1.03	13/1

SECTION 14: Transport information

A1500-M HARDENER

A1500-M HARDENER				
SECTION 14:	Transport information	on		
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	111	111	111	
14.5 Environmental hazards	No.	No.	No.	
Additional informa	<u>tion</u>			
ADR/RID IMDG	packagings up t <u>Tunnel code</u> (D : <u>Emergency sch</u> <u>Viscous liquid</u> packagings up t	o 450 L according to 2 //E) 1edules F-E, _S-E_	2.2.3.1.5.1. 3 viscous liquid is no 2.3.2.5.	ot subject to regulation in ot subject to regulation in
14.6 Special precau user	upright and secu			osed containers that are product know what to do in
14.7 Transport in b according to IMO instruments	ulk : Not available.			
SECTION 15:	Regulatory information	ion		
15.1 Safety, health	and environmental regulatio	ns/legislation specif	ic for the substanc	e or mixture

<u>30105 sayılı, Kimyasalların Kaydı, Değerlendirilmesi, İzni ve Kısıtlanması Hakkında Yönetmelik.</u> 28733 sayılı, Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik. 28730 sayılı, Kanserojen ve Mutajen Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik.

<u>6331 sayılı, İş Sağlığı ve Güvenliği Kanunu.</u> 29314 sayılı, Atık Yönetimi Yönetmeliği.

33 14 Sayin, Atik Tonetimi Yonetmelle

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c

: Ks from August 24 2023 adequate training is required before industrial or

Regulation 30105 KKDIK

Annex XIV - List of substances subject to authorization

professional use.

<u>Annex XIV</u>

None of the components are listed.

Substances of very high concern

None of the components are listed.

KKDIK, Annex XVII -Restrictions on the Manufacture, Place on the Market and Use of Certain Hazardous Substances, Mixtures and Articles

Date of revision

A1500-M HARDENER

SECTION 15: Regulatory information

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	EUH statement = SEA-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to regulation SEA: RG.-11/12/2013-28848

Classification	Justification	
Flam. 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

11005	
H225	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.
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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated
	exposure.
Date of revision	: 9-12-2022 Original preparation date : 1-10-2022 Version : 1.03 15/

A1500-M HARDENER

SECTION 16: Othe	r information			
H412 EUH014 EUH066	Harmful to aquatic life with long lasting effects. Reacts violently with water. Repeated exposure may cause skin dryness or cracking.			
Full text of classifications	[CLP/GHS]			
Acute Tox. 3 Acute Tox. 4 Aquatic Chronic 3 Asp. Tox. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Resp. Sens. 1 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 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 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	: 1.03			
Unique ID	:			
Contact information of ce	<u>tified author</u>			

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.