

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SAFETY DATA SHEET

300-HT HARDENER

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

1.1	Product	identifier
_		

Product name	:	300-HT HARDENER
SDS code	:	21300000D

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

Identified uses		
Paint. Professional use Industrial use		
Uses advised against		
All other uses		
Product use	: Solvent borne primer	

1.3 Details of the supplier of the safety data sheet

MAPAERO SAS 10, Avenue de la Rijole CS30098 09103 PAMIERS Cedex France e-mail address of person : PSRA PAMIERS@akzonobel.com

responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number	: +39 02 6610 1029
<u>Supplier</u>	
Telephone number	: +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30
Hours of operation	:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373

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

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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

Azard pictograms	:	
Signal word	:	Warning
Hazard statements	:	Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
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. Do not breathe vapor. Wash hands thoroughly after handling.
Response	:	Get medical advice or attention if you feel unwell. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	:	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Hexamethylene diisocyanate, oligomers Reaction mass of ethylbenzene and xylene hexamethylene-di-isocyanate
Supplemental label elements	:	Contains isocyanates. May produce an allergic reaction. As from 24 August 2023 adequate training is required before industrial or professional use.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	nen	<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.
Other hazards which do not result in classification	:	None known.
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Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Hexamethylene diisocyanate, oligomers	REACH #: 01-2119485796-17 EC: 500-060-2 CAS: 28182-81-2	≥50 - ≤75	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	[1]
Reaction mass of ethylbenzene and xylene	CAS: 28182-81-2 REACH #: 01-2119488216-32 EC: 905-588-0	≥10 - <25	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]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6	≥10 - <20	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
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]
			See Section 16 for the full text of the H statements declared above.	

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>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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Eye contact		ves with plenty of water, occasionally lifting the upper and lower and remove any contact lenses. Continue to rinse for at least 10 al attention.
Inhalation	If it is suspected that mask or self-contain or if respiratory arres personnel. It may be resuscitation. Get m If unconscious, place Maintain an open air	esh air and keep at rest in a position comfortable for breathing. It fumes are still present, the rescuer should wear an appropriate led breathing apparatus. If not breathing, if breathing is irregular st occurs, provide artificial respiration or oxygen by trained e dangerous to the person providing aid to give mouth-to-mouth nedical attention. If necessary, call a poison center or physician. e in recovery position and get medical attention immediately. way. Loosen tight clothing such as a collar, tie, belt or of inhalation of decomposition products in a fire, symptoms may
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SECTION 4: First aid measures

	be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

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

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

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

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

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

Contains Hexamethylene diisocyanate, oligomers, 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
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

SECTION 4: First aid measures		
4.3 Indication of any immed	iate 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: Firefigh	ting measures	
5.1 Extinguishing media		
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.	
Unsuitable extinguishing media	: Do not use water jet.	
5.2 Special hazards arising	from the substance or mixture	
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 combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.	
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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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 co	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.

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SECTION 6: Accide	SECTION 6: Accidental release measures					
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.					
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.					

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: 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 breathe vapor or mist. Do not ingest. 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

Danger criteria

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

7.3 Specific end use(s)

:	Not	avai	lable

Recommendations Industrial sector specific solutions

: Not available.



SECTION 8: Exposure controls/personal protection

required.

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Reaction mass of ethylbenzene and xylene	Ministry of Labour and Social Policy (Italy, 10/2013). Absorbed through skin.
	Short Term: 442 mg/m ³ 15 minutes.
	Short Term: 100 ppm 15 minutes. 8 hours: 221 mg/m ³ 8 hours.
	8 hours: 50 ppm 8 hours.
2-methoxy-1-methylethyl acetate	Ministry of Labour and Social Policy (Italy, 10/2013). Absorbed
	through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 275 mg/m ³ 8 hours.
	Short Term: 100 ppm 15 minutes.
	Short Term: 550 mg/m ³ 15 minutes.
procedures atmosphere	ct contains ingredients with exposure limits, personal, workplace or biological monitoring may be required to determine the effectiveness ation or other control measures and/or the necessity to use respiratory
	quipment. Reference should be made to monitoring standards, such as
	European Standard EN 689 (Workplace atmospheres - Guidance for
	nent of exposure by inhalation to chemical agents for comparison with
	and measurement strategy) European Standard EN 14042 (Workplace
	s - 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
	surement 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
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/m ³	Workers	Systemic
hexamethylene-di-isocyanate	DNEL	Long term Inhalation	0.035 mg/ m³	Workers	Local
	DNEL	Long term Inhalation	0.035 mg/ m³	Workers	Systemic
	DNEL	Short term Inhalation	0.07 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	0.07 mg/m ³	Workers	Systemic

PNECs

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SECTION 8: Exposure controls/personal protection

No PNECs available.

8.2 Exposure controls				
Appropriate engineering controls	Ci Ci	entilation or other engine ontaminants below any r ontrols also need to kee	entilation. Use process enclose eering controls to keep worker of ecommended or statutory limit p gas, vapor or dust concentrat losion-proof ventilation equipm	exposure to airborne s. The engineering tions below any lower
Individual protection measured	ures			
Hygiene measures	b A C c	efore eating, smoking ar ppropriate techniques sh ontaminated work clothi	nd face thoroughly after handlin nd using the lavatory and at the nould be used to remove poten ng should not be allowed out o fore reusing. Ensure that eyew workstation location.	end of the working period. tially contaminated clothing. f the workplace. Wash
Eye/face protection	a: g: u	ssessment indicates this ases or dusts. If contact	g with an approved standard sh is necessary to avoid exposur t is possible, the following prote dicates a higher degree of prot	e to liquid splashes, mists, ection should be worn,
Skin protection				
Hand protection	b th cl sl di se	e worn at all times when is is necessary. Consid neck during use that the nould be noted that the t fferent for different glove	vious gloves complying with ar handling chemical products if ering the parameters specified gloves are still retaining their p ime to breakthrough for any glo e manufacturers. In the case of rotection time of the gloves can	a risk assessment indicates by the glove manufacturer, protective properties. It by material may be of mixtures, consisting of
	pi re (t R G	rotection class of 6 (brea ecommended. Recomm /hen only brief contact is preakthrough time >30 m ecommended gloves: N	ently repeated contact may occ akthrough time >480 minutes a ended gloves: Viton \circledast or Nitrile s expected, a glove with protect ninutes according to EN374) is itrile, thickness ≥ 0.12 mm. d regularly and if there is any s	ccording to EN374) is e, thickness ≥ 0.38 mm. tion class of 2 or higher recommended.
		he performance or effec nemical damage and po	tiveness of the glove may be re or maintenance.	educed by physical/
	р		the final choice of type of glov priate and takes into account the er's risk assessment.	
Body protection	b b w di E	eing performed and the efore handling this produ ear anti-static protective scharges, clothing shou	ment for the body should be se risks involved and should be ap uct. When there is a risk of ign clothing. For the greatest prof Id include anti-static overalls, b 149 for further information on n othods.	oproved by a specialist ition from static electricity, tection from static oots and gloves. Refer to
Other skin protection	S	elected based on the tas	any additional skin protection i sk being performed and the risk pefore handling this product.	
Respiratory protection	:B a re	ased on the hazard and ppropriate standard or c	potential for exposure, select a ertification. Respirators must b gram to ensure proper fitting, tr	be used according to a
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SECTION 8: Exposure controls/personal protection

Environmental exposure	: Emissions from ventilation or work process equipment should be checked to
controls	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

9.1 Information on basic physical	a	nd chemical properties
<u>Appearance</u>		
Physical state	:	Liquid.
Color	:	Colorless.
Odor	:	Characteristic.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point/freezing point	:	Not available.
Initial boiling point and boiling range	:	Not available.
Flash point	:	Closed cup: 43°C
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 4.15 (Air = 1)
Density	:	1.07 g/cm ³
Solubility(ies)	:	Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (room temperature): 0.93 cm²/s Kinematic (40°C): 0.51 cm²/s

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.					
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diisocyanate, oligomers	LC50 Inhalation Dusts and mists	Rat	18500 mg/m ³	1 hours
Reaction mass of ethylbenzene and xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
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 diisocyanate, oligomers	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	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	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	100 %	-
Conclusion/Summary	· Not available	•	•	•	

Conclusion/Summary	: Not available.
Sensitization	
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)

Product/ingredient name	Category	Route of exposure	Target organs
Hexamethylene diisocyanate, oligomers	Category 3	-	Respiratory tract irritation
Reaction mass of ethylbenzene and xylene	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
hexamethylene-di-isocyanate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)



SECTION 11: Toxic	ologic				1	
Product/ingredient name		C	ategory	Route of exposure	Target organs	
Reaction mass of ethylben:	zene and	t xylene	Categ	ory 2	-	-
Aspiration hazard						
Produc	t/ingred	ient name			Result	
Reaction mass of ethylben:	zene and	t xylene		ASPIRATI	ON HAZARD - Cat	egory 1
Information on the likely routes of exposure	: No	ot available.				
Potential acute health effec	<u>:ts</u>					
Eye contact	: Ca	auses serious eye irritati	on.			
Inhalation	: Ha	armful if inhaled. May ca	ause re	spiratory irri	itation.	
Skin contact	: Ca	uses skin irritation. Ma	y caus	e an allergic	skin reaction.	
Ingestion	: No	hown significant effec	ts or c	ritical hazaro	ds.	
Symptoms related to the pl	nysical,	chemical and toxicolo	gical c	haracterist	tics	
Eye contact	pa wa	lverse symptoms may ir in or irritation itering dness	nclude	the following	j:	
Inhalation	res	lverse symptoms may ir spiratory tract irritation ughing	nclude	the following	j:	
Skin contact	irri	lverse symptoms may ir tation dness	nclude	the following	j :	
Ingestion	: No	o specific data.				
Delayed and immediate effo	ects and	l also chronic effects f	from sl	hort and lo	ng term exposure	
<u>Short term exposure</u>						
Potential immediate effects	: No	ot available.				
Potential delayed effects	: No	ot available.				
Long term exposure						
Potential immediate effects	: No	ot available.				
Potential delayed effects	: No	ot available.				
Potential chronic health e Not available.	<u>ffects</u>					
Conclusion/Summary		ot available.	-			_
General	: Ma	ay cause damage to org				

General	ensitized, a severe allergic reaction may occur when subsequently exposed to very ow levels.	1
Carcinogenicity	lo 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.

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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
Reaction mass of ethylbenzene and xylene	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Conclusion/Summary	: Not available.		

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

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

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
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.

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.

SECTION 13: Disposal considerations Disposal considerations : Do not allow to enter drains or watercourses. Residues in empty containers should be neutralized with a decontaminant (see section 6). Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

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

Waste code	Waste designation		
EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		
Packaging			
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.		
Disposal considerations	 Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions. 		
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.		

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	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	111
14.5 Environmental hazards	No.	No.	No.

Additional information

ADR/RID	: <u>Tunnel code</u> (D/E)
IMDC	. Emorgonov ochodulog i

IMDG : <u>Emergency schedules</u> F-E, _S-E_

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



	300-HT HARDENER
SECTION 14: Transp	oort information
14.7 Transport in bulk according to IMO instruments	: Not applicable.
SECTION 15: Regula	atory information
15.1 Safety, health and envir	ronmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 190	<u>07/2006 (REACH)</u>
Annex XIV - List of substa	ances subject to authorization
<u>Annex XIV</u>	
None of the components a	are listed.
Substances of very high	concern
None of the components a	are listed.
Annex XVII - Restrictions	: Not applicable.
on the manufacture,	
placing on the market and use of certain	
dangerous substances,	
mixtures and articles	
Other EU regulations	
VOC	: 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.
VOC for Ready-for-Use Mixture	: Not applicable.
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Ozone depleting substand Not listed.	<u>ces (1005/2009/EU)</u>
Prior Informed Consent (F Not listed.	<u>PIC) (649/2012/EU)</u>
Seveso Directive	
This product is controlled ur	nder the Seveso Directive.
Danger criteria	
Category	
P5c	
National regulations	
Industrial use	: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety

- own assessment of workplace risks, as required by other health and safety
legislation. The provisions of the national health and safety at work regulations apply
to the use of this product at work.D.Lgs. 152/06: 0.29% Table D Class I
0.29% Table D Class I Total emission
 - 0.29% Total emission

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

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SECTION 15: Regulatory information

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Europe	: All components are listed or exempted.
	· · ·

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

Assessment

SECTION 16: Other information

Indicates information	on 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	
Flam. Liq. 3, H226	On basis of test data	
Acute Tox. 4, H332	Calculation method	
Skin Irrit. 2, H315	Calculation method	
Eye Irrit. 2, H319	Calculation method	
Skin Sens. 1, H317	Calculation method	
STOT SE 3, H335	Calculation method	
STOT RE 2, H373	Calculation method	

Full text of abbreviated H statements

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
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Date of previous issue



SECTION 16: Other information			
		exposure.	
H412		Harmful to aquatic life with long lasting effects.	
Full text of classifications	[CLP/GHS]		
Acute Tox. 3		ACUTE TOXICITY - Category 3	
Acute Tox. 4		ACUTE TOXICITY - Category 4	
Aquatic Chronic 3		AQUATIC HAZARD (LONG-TERM) - Category 3	
Asp. Tox. 1		ASPIRATION HAZARD - Category 1	
Eye Irrit. 2		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2	
Flam. Liq. 3		FLAMMABLE LIQUIDS - Category 3	
Resp. Sens. 1		RESPIRATORY SENSITIZATION - Category 1	
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1		SKIN SENSITIZATION - Category 1	
STOT RE 2		SPECIFIC TARGET ORGAN TOXICITY (REPEATED	
		EXPOSURE) - Category 2	
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -	
		Category 3	
Date of printing	: 21 October 202	2	
Date of issue/ Date of	: 1 October 2022		
revision			
Date of previous issue	: No previous validation		
Version	: 1		
Unique ID	:		
Notice to reader			

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

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