

SAFETY DATA SHEET

HB215 HARDENER

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

1.1	Product	identifier

Product name	: HB215 HARDENEF
SDS code	: 21215000D

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

1.4 Emergency telephone number

responsible for this SDS

National advisory body/P	<u>oison Center</u>
Telephone number	: +44 (0)344 892 0111
<u>Supplier</u>	
Telephone number	: +33 (0)5 34 01 34 01
	+33 (0)5 61 60 23 30
Hours of operation	:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373



SECTION 2: Hazards identification

Asp. Tox. 1, H304

Aquatic Chronic 3, H412

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

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements		Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapor. Wash hands thoroughly after handling.
Response	:	IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. 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. Immediately call a POISON CENTER or doctor.
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	:	Reaction mass of ethylbenzene and xylene butan-1-ol 4-methylpentan-2-one 3,6-diazaoctanethylenediamin 2,2'-iminodiethylamine
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	<u>1en</u>	ts
Containers to be fitted with child-resistant fastenings		Not applicable.
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SECTION 2: Hazards identification

Tactile warning of danger : Not applicable.

2.3 Other hazards

 Product meets the criteria
 : This mixture does not contain any substances that are assessed to be a PBT or a vPvB according to Regulation (EC) No.

 1907/2006, Annex XIII
 : None known.

not result in classification

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Reaction mass of ethylbenzene and xylene	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]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤10	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
4-methylpentan-2-one	EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≤4	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	[1] [2]
3,6-diazaoctanethylenediamin	EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5	≤3	Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
2,2'-iminodiethylamine	REACH #: 01-2119473793-27 EC: 203-865-4 CAS: 111-40-0 Index: 612-058-00-X	≤0.3	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 2, H330 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

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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.

Туре

- [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

Eye contact	:	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
Inhalation	:	Get medical attention immediately. Call a poison center or physician. 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. 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	:	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed



SECTION 4: First aid measures

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. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

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

Ingestion may cause nausea, diarrhea and vomiting.

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.

Contains 3,6-diazaoctanethylenediamin, 2,2'-iminodiethylamine. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains nausea or vomiting

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

5.2 Special hazards arising 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

SECTION 5: Firefighting measures

5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe 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). Water polluting material. May be harmful to the environment if released in large quantities.

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.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling



SECTION 7: Handling and storage Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a bistory of skin sensitization problems should not be employed in any process in

	history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. 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

	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.
Solutions	

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name			Exposure limit va	alues
Reaction mass of ethylbenzene 1-methoxy-2-propanol	·	through skin. STEL: 441 mg/m STEL: 100 ppm 7 TWA: 220 mg/m TWA: 50 ppm 8 l	³ 15 minutes. 15 minutes. ³ 8 hours. hours. (United Kingdom (U	K), 1/2020). Absorbed K), 1/2020). Absorbed
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ECTION 8: Exposure con	ntrols/personal protection
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
butan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 154 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
4-methylpentan-2-one	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 416 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 208 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
2,2'-iminodiethylamine	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	TWA: 4.3 mg/m ³ 8 hours.
	TWA: 1 ppm 8 hours.
procedures atmo	is product contains ingredients with exposure limits, personal, workplace osphere or biological monitoring may be required to determine the effectivenes ne ventilation or other control measures and/or the necessity to use respiratory

atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Reaction mass of ethylbenzene a xylene	nd 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
1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	43.9 mg/m ³		Systemic
	DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	369 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	553.5 mg/ m³	Workers	Local
	DNEL	Short term	553.5 mg/	Workers	Systemic
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e of previous issue	No previous va	alidation	8/20		AkzoNob

		Inhalation	m³		
butan-1-ol	DNEL	Long term Oral	3.125 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	55 mg/m ³	General	Local
		Inhalation	Ū.	population	
	DNEL	Long term	310 mg/m ³	Workers	Local
		Inhalation	Ũ		
4-methylpentan-2-one	DNEL	Long term Oral	4.2 mg/kg	General	Systemic
		Ū.	bw/day	population	
	DNEL	Long term Dermal	4.2 mg/kg	General	Systemic
		U U	bw/day	population	
	DNEL	Long term Dermal	11.8 mg/	Workers	Systemic
		5	kg bw/day		,
	DNEL	Long term	14.7 mg/m ³	General	Local
		Inhalation	g ,	population	
	DNEL	Long term	14.7 mg/m ³		Systemic
		Inhalation	· · · · · · · · · · · · · · · · · · ·	population	-,
	DNEL	Long term	83 mg/m³	Workers	Local
		Inhalation	eeg,		
	DNEL	Long term	83 mg/m³	Workers	Systemic
		Inhalation	<u>-</u>		-,
	DNEL	Short term	155.2 mg/	General	Local
		Inhalation	m ³	population	
	DNEL	Short term	155.2 mg/	General	Systemic
		Inhalation	m ³	population	-,
	DNEL	Short term	208 mg/m ³	Workers	Local
		Inhalation	J.		
	DNEL	Short term	208 mg/m ³	Workers	Systemic
		Inhalation	J.		,
2,2'-iminodiethylamine	DNEL	Long term	0.87 mg/m ³	Workers	Local
· ·		Inhalation	0		
	DNEL	Short term	2.6 mg/m ³	Workers	Local
		Inhalation	Ū		
	DNEL	Long term	4.6 mg/m ³	General	Systemic
		Inhalation	0	population	
	DNEL	Short term Dermal	4.88 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	4.88 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	11.4 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	15.4 mg/m ³	Workers	Systemic
		Inhalation	Ĭ		
	DNEL	Short term	27.5 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term	92.1 mg/m ³		Systemic
				-	,

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures



SECTION 8: Exposure controls/personal protection : Wash hands, forearms and face thoroughly after handling chemical products, Hygiene measures 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. : Safety eyewear complying with an approved standard should be used when a risk Eye/face protection 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. 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. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton \circledast or Nitrile, thickness ≥ 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness \geq 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. **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. : Appropriate footwear and any additional skin protection measures should be Other skin protection selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. : Based on the hazard and potential for exposure, select a respirator that meets the **Respiratory protection** 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** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. controls 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 and 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	Not available.	
boiling range		
Flash point	Closed cup: 24°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: 5.04 (Air = 1) (3,6-diazaoctanethylenediamin). W average: 2.4 (Air = 1)	/eighted
Density).924 g/cm³	
Solubility(ies)	nsoluble in the following materials: cold water.	
Partition coefficient: n-octanol/ water	lot available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Kinematic (room temperature): 0.11 cm²/s Kinematic (40°C): 0.06 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.



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

butan-1-ol	LC50 Inhalation Gas. LC50 Inhalation Gas. LD50 Dermal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Oral LD50 Oral LD50 Oral LD50 Subcutaneous LC50 Inhalation Vapor LD50 Dermal LD50 Dermal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Intravenous	Rat Rat Rabbit Rat Mouse Rabbit Rat Rabbit Rat Rabbit Rat Rat Rabbit Mouse Rat	5000 ppm 10000 ppm 13 g/kg 3720 mg/kg 5300 mg/kg 1200 mg/kg 4200 mg/kg 5700 mg/kg 5700 mg/kg 5 g/kg 7800 mg/kg 24000 mg/m ³ 3400 mg/kg 254 mg/kg	4 hours 5 hours - - - - - - - - - - 4 hours
1-methoxy-2-propanol	LD50 Dermal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Oral LD50 Oral LD50 Oral LD50 Subcutaneous LD50 Subcutaneous LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Intravenous	Rabbit Rat Mouse Rabbit Rat Mouse Rabbit Rat Rat Rat Rat Rabbit Mouse Rat	13 g/kg 3720 mg/kg 5300 mg/kg 1200 mg/kg 4200 mg/kg 11700 mg/kg 5700 mg/kg 6600 mg/kg 5 g/kg 7800 mg/kg 24000 mg/m ³ 3400 mg/kg	- - - - - - -
butan-1-ol	LD50 Dermal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Oral LD50 Oral LD50 Oral LD50 Subcutaneous LD50 Subcutaneous LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Intravenous	Rabbit Rat Mouse Rabbit Rat Mouse Rabbit Rat Rat Rat Rat Rabbit Mouse Rat	13 g/kg 3720 mg/kg 5300 mg/kg 1200 mg/kg 4200 mg/kg 11700 mg/kg 5700 mg/kg 6600 mg/kg 5 g/kg 7800 mg/kg 24000 mg/m ³ 3400 mg/kg	- - - - - - -
outan-1-ol	LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Subcutaneous LD50 Subcutaneous LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Intravenous	Rat Mouse Rabbit Rat Mouse Rabbit Rat Rat Rat Rat Rabbit Mouse Rat	3720 mg/kg 5300 mg/kg 1200 mg/kg 4200 mg/kg 5700 mg/kg 6600 mg/kg 5 g/kg 7800 mg/kg 24000 mg/m ³ 3400 mg/kg	- - - - - - - - 4 hours
outan-1-ol	LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Oral LD50 Oral LD50 Oral LD50 Subcutaneous LD50 Subcutaneous LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Oral	Mouse Rabbit Rat Mouse Rabbit Rat Rabbit Rat Rat Rabbit Mouse Rat	3720 mg/kg 5300 mg/kg 1200 mg/kg 4200 mg/kg 5700 mg/kg 6600 mg/kg 5 g/kg 7800 mg/kg 24000 mg/m ³ 3400 mg/kg	- - - - - - - 4 hours
outan-1-ol	LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Oral LD50 Oral LD50 Oral LD50 Subcutaneous LD50 Subcutaneous LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Oral	Rabbit Rat Mouse Rabbit Rat Rabbit Rat Rat Rabbit Mouse Rat	5300 mg/kg 1200 mg/kg 4200 mg/kg 11700 mg/kg 5700 mg/kg 6600 mg/kg 5 g/kg 7800 mg/kg 24000 mg/m ³ 3400 mg/kg	- - - - - - 4 hours
outan-1-ol	LD50 Intravenous LD50 Intravenous LD50 Oral LD50 Oral LD50 Oral LD50 Subcutaneous LD50 Subcutaneous LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Oral	Rabbit Rat Mouse Rabbit Rat Rabbit Rat Rat Rabbit Mouse Rat	1200 mg/kg 4200 mg/kg 11700 mg/kg 5700 mg/kg 6600 mg/kg 5 g/kg 7800 mg/kg 24000 mg/m ³ 3400 mg/kg	- - - - - 4 hours
outan-1-ol	LD50 Intravenous LD50 Oral LD50 Oral LD50 Oral LD50 Subcutaneous LD50 Subcutaneous LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous LD50 Oral	Rat Mouse Rabbit Rat Rabbit Rat Rat Rabbit Mouse Rat	4200 mg/kg 11700 mg/kg 5700 mg/kg 6600 mg/kg 5 g/kg 7800 mg/kg 24000 mg/m ³ 3400 mg/kg	- - - - 4 hours
outan-1-ol	LD50 Oral LD50 Oral LD50 Oral LD50 Subcutaneous LD50 Subcutaneous LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Intravenous	Mouse Rabbit Rat Rabbit Rat Rat Rabbit Mouse Rat	11700 mg/kg 5700 mg/kg 6600 mg/kg 5 g/kg 7800 mg/kg 24000 mg/m ³ 3400 mg/kg	- - - - 4 hours
outan-1-ol	LD50 Oral LD50 Oral LD50 Subcutaneous LD50 Subcutaneous LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Oral	Rabbit Rat Rabbit Rat Rat Rabbit Mouse Rat	5700 mg/kg 6600 mg/kg 5 g/kg 7800 mg/kg 24000 mg/m ³ 3400 mg/kg	- - - 4 hours
outan-1-ol	LD50 Oral LD50 Subcutaneous LD50 Subcutaneous LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Oral	Rat Rabbit Rat Rat Rabbit Mouse Rat	6600 mg/kg 5 g/kg 7800 mg/kg 24000 mg/m ³ 3400 mg/kg	- - - 4 hours
outan-1-ol	LD50 Subcutaneous LD50 Subcutaneous LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Oral	Rabbit Rat Rat Rabbit Mouse Rat	5 g/kg 7800 mg/kg 24000 mg/m ³ 3400 mg/kg	- - 4 hours
butan-1-ol	LD50 Subcutaneous LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Oral	Rat Rat Rabbit Mouse Rat	7800 mg/kg 24000 mg/m ³ 3400 mg/kg	- - 4 hours
outan-1-ol	LC50 Inhalation Vapor LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Oral	Rat Rabbit Mouse Rat	24000 mg/m ³ 3400 mg/kg	- 4 hours
	LD50 Dermal LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Oral	Rabbit Mouse Rat	3400 mg/kg	4 hours
	LD50 Intraperitoneal LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Oral	Mouse Rat		
	LD50 Intraperitoneal LD50 Intravenous LD50 Intravenous LD50 Oral	Rat	254 mg/kg	-
	LD50 Intravenous LD50 Intravenous LD50 Oral			-
	LD50 Intravenous LD50 Oral		200 mg/kg	-
	LD50 Oral	Mouse	377 mg/kg	-
		Rat	310 mg/kg	-
		Mouse	100 mg/kg	-
	LD50 Oral	Rabbit	3484 mg/kg	-
	LD50 Oral	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	0.79 g/kg	-
	LD50 Oral	Rat	4.36 g/kg	-
	LD50 Oral	Rat	790 mg/kg	-
	LD50 Subcutaneous	Mouse	3200 mg/kg	_
	LD50 Intraperitoneal	Guinea pig	800 mg/kg	_
	LD50 Intraperitoneal	Mouse	268 mg/kg	
	LD50 Intraperitoneal	Rat	400 mg/kg	-
				-
	LD50 Oral	Guinea pig	1600 mg/kg	-
	LD50 Oral	Mouse	1900 mg/kg	-
	LD50 Oral	Mouse	2850 mg/kg	-
	LD50 Oral	Rat	2080 mg/kg	-
	LD50 Oral	Rat	4600 mg/kg	-
3,6-diazaoctanethylenediamin		Rabbit	805 mg/kg	-
	LD50 Intraperitoneal	Mouse	468 mg/kg	-
	LD50 Intravenous	Mouse	350 mg/kg	-
	LD50 Oral	Mouse	38.5 mg/kg	-
	LD50 Oral	Rabbit	5500 mg/kg	-
	LD50 Oral	Rat	2500 mg/kg	-
	LD50 Dermal	Guinea pig	170 uL/kg	_
	LD50 Dermal	Rabbit	1090 mg/kg	_
	LD50 Intraperitoneal	Mouse	71 mg/kg	_
	LD50 Intraperitoneal	Rat	74 mg/kg	-
	LD50 Oral	Rat	1080 mg/kg	
				⁻
	LD50 Route of exposure	Guinea pig	600 mg/kg	-
	unreported		070	
	LD50 Route of exposure	Mouse	970 mg/kg	-
	unreported			
	LD50 Route of exposure	Rabbit	970 mg/kg	-
	unreported			
	LD50 Route of exposure	Rat	970 mg/kg	-
	unreported			

Conclusion/Summary Irritation/Corrosion : Not available.



SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Reaction mass of ethylbenzene and xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
	Skin - Mild irritant	Rat	_	mg 8 hours 60 UI	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
	Skin - Moderate irritant	Rabbit	_	mg 100 %	-
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
butan-1-ol	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Eyes - Severe irritant	Rabbit	-	0.005 MI	-
	Eyes - Severe irritant	Rabbit	-	1.62 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
4-methylpentan-2-one	Eyes - Moderate irritant	Rabbit	-	24 hours 100 Ul	-
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
3,6-diazaoctanethylenediamin	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	_	49 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 5	-
	Skin - Severe irritant	Rabbit	-	490 mg	-
2,2'-iminodiethylamine	Skin - Moderate irritant	Rabbit	-	500 mg	-
Conclusion/Summary	: Not available.	I			L
<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				
CONCIUSION/SUMMARY					

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
4-methylpentan-2-one	Category 3	-	Narcotic effects
2,2'-iminodiethylamine	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

SECTION 11: Toxicological information			
Product/ingredient name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene	Category 2	-	-
A subsetter la second	1	1	

Aspiration hazard

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

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	Causes serious eye damage.
Inhalation	:	Harmful if inhaled. May cause respiratory irritation.
Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	:	May be fatal if swallowed and enters airways.
Symptoms related to the phys	sic	cal, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	:	Adverse symptoms may include the following: stomach pains

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

nausea or vomiting

Delayea ana ininicalate enec		on short and long term expose	
<u>Short term exposure</u>			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
<u>Long term exposure</u>			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Potential chronic health effe	<u>ects</u>		
Not available.			
Conclusion/Summary	: Not available.		
General	, , , ,	ans through prolonged or repeated c reaction may occur when subse	•
Carcinogenicity	: Suspected of causing canc exposure.	er. Risk of cancer depends on d	uration and level of
Mutagenicity	: No known significant effect	s or critical hazards.	
Date of issue/Date of revision	: 1-10-2022	Version : 1	
Date of previous issue	: No previous validation	14/20	AkzoNobel

SECTION 11: Toxicological information

Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

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

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 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
butan-1-ol	Acute EC50 1983 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2300000 µg/l Marine water	Fish - Alburnus alburnus	96 hours
	Acute LC50 1910000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 1940000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 1730000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
4-methylpentan-2-one	Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 540000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 537000 μg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days
3,6-diazaoctanethylenediamin	Acute EC50 3700 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 33900 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
2,2'-iminodiethylamine	Acute EC50 345600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 53500 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1014000 µg/l Fresh water	Fish - Poecilia reticulata	96 hours

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Reaction mass of ethylbenzene and xylene	3.12	8.1 to 25.9	low
1-methoxy-2-propanol	<1	-	low
butan-1-ol	1	-	low
4-methylpentan-2-one	1.9	-	low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	low
2,2'-iminodiethylamine	-5.58	2.8 to 6.3	low

12.4 Mobility in soil

Date of issue/Date of revision	: 1-10-2022	Version :1	
Date of previous issue	: No previous validation	15/20	AkzoNobel

SECTION 12: Ecological information

Soil/water partition: Not available.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).

13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Disposal considerations	: Do not allow to enter drains or watercourses. 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.



	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263
4.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
4.4 Packing proup			
14.5 Environmental hazards	No.	No.	No.
Additional information	ation		I
ADR/RID	: <u>Tunnel code</u>	(D/E)	
IMDG	: Emergency s	chedules 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.

14.7 Transport in bulk	: Not applicable.
according to IMO	
instruments	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components 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

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



SECTION 15: Regulatory information
Industrial emissions : Not listed (integrated pollution prevention and control) - Water
<u>Ozone depleting substances (1005/2009/EU)</u>
Not listed.
Prior Informed Consent (PIC) (649/2012/EU)
Not listed.
Seveso Directive
This product is controlled under 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 legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.
International regulations
Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.
Montreal Protocol
Not listed.
Stockholm Convention on Persistent Organic Pollutants Not listed.
Rotterdam Convention on Prior Informed Consent (PIC) Not listed.
UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.
Inventory list
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 that has changed from previously issued version

Date of previous issue	: No previous validation	18/20	AkzoNobel
Date of issue/Date of revision	: 1-10-2022	Version :1	
	DMEL = Derived Minimal Effe DNEL = Derived No Effect Le EUH statement = CLP-specifi N/A = Not available PBT = Persistent, Bioaccumu PNEC = Predicted No Effect (RRN = REACH Registration N SGG = Segregation Group vPvB = Very Persistent and V	vel ic Hazard statement lative and Toxic Concentration Number /ery Bioaccumulative	
Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labellin 1272/2008]	e g and Packaging Regulation [I	Regulation (EC) No.
Indicates information that	has changed from previously issue	ed version.	

SECTION 16: Other information

Procedure used to derive t	he classification acc	cording to Regulation	n (EC) No. 1272/2008 [CL	P/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 Dam. 1, H318			Calculation method	
Skin Sens. 1, H317			Calculation method	
Carc. 2, H351			Calculation method	
STOT SE 3, H335			Calculation method	
STOT RE 2, H373			Calculation method	
Asp. Tox. 1, H304			Calculation method	
Aquatic Chronic 3, H412			Calculation method	
Full text of abbreviated H s	<u>tatements</u>	1		
H225		Highly flammable liq		
H226		Flammable liquid an		
H302		Harmful if swallowed		
H304			wed and enters airways.	
H312		Harmful in contact w		
H314			burns and eye damage.	
H315		Causes severe skin Causes skin irritation		
H317				
		May cause an allerg		
H318		Causes serious eye		
H319		Causes serious eye	irritation.	
H330		Fatal if inhaled.		
H332		Harmful if inhaled.		
H335		May cause respirato		
H336		May cause drowsine	ss or dizziness.	
H351		Suspected of causin		
H373			to organs through prolong	ed or repeated
H412			fe with long lasting effects.	
EUH066		Repeated exposure	may cause skin dryness o	r cracking.
Full text of classifications	CLP/GHS]			
Acute Tox. 2		ACUTE TOXICITY -	Category 2	
Acute Tox. 4		ACUTE TOXICITY -		
Aquatic Chronic 3			(LONG-TERM) - Category	/3
Asp. Tox. 1		ASPIRATION HAZA		, 0
Carc. 2		CARCINOGENICITY		
			0,	Cotogony 1
Eye Dam. 1			AGE/ EYE IRRITATION -	
Eye Irrit. 2			IAGE/ EYE IRRITATION -	Calegory 2
Flam. Liq. 2		FLAMMABLE LIQUI		
Flam. Liq. 3		FLAMMABLE LIQUI		_
Skin Corr. 1B			IRRITATION - Category 1	
Skin Irrit. 2			IRRITATION - Category 2	
Skin Sens. 1		SKIN SENSITIZATIO		
STOT RE 2		SPECIFIC TARGET	ORGAN TOXICITY (REP	EATED
		EXPOSURE) - Cate	•	
STOT SE 3			ORGAN TOXICITY (SINC	GIEEXPOSURE) -
		Category 3		
Date of printing	: 1 October 2022	2		
Date of issue/ Date of revision	: 1 October 2022	2		
Date of previous issue	: No previous va	lidation		
Version	: 1			
Unique ID	:			
Notice to reader				
Date of issue/Date of revision	: 1-10-2022		Version :1	
Date of provious issue	: No previous vali	dation	10/20	AkzoNobel

Date of previous issue



SECTION 16: Other information

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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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