# SAFETY DATA SHEET



Date of issue/Date of revision

: 27 June 2024

Version : 1.08

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

**1.1 Product identifier** 

Product name	: HS RAPID HARDENER
Product code	: 1.954.2730/E2.5
Product type	: Liquid.
Other means of identification	: Not available.
	4ATT-13AW-U001-VK31

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

Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Hardener.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.

## 1.3 Details of the supplier of the safety data sheet

PPG Industries (UK) Ltd. Needham Road, Stowmarket, Suffolk, IP14 2AD, UK Tel: +44 (0) 1449 773 338 PPG Industries Italia S.r.I., Via Comasina, 121, 20161 Milano, Italy Tel: +39 02 6404.1

e-mail address of person : Product.Stewardship.EMEA@ppg.com responsible for this SDS

: Mixture

### 1.4 Emergency telephone number

### Supplier

- Company emergency telephone number : +44 (0) 1449 773 338 ( 0900-1600)

# SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

**Product definition Classification according to UK CLP/GHS** Mam. Liq. 3, H226 Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336 Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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

English (GB)

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# SECTION 2: Hazards identification

Hazard statements	:	<ul> <li>Fammable liquid and vapour.</li> <li>May cause an allergic skin reaction.</li> <li>Harmful if inhaled.</li> <li>May cause respiratory irritation.</li> <li>May cause drowsiness or dizziness.</li> <li>Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements		
Prevention	:	Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour.
Response	1	F INHALED: Call a POISON CENTER or doctor if you feel unwell.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
		₽280, P210, P273, P261, P304 + P312, P501
Supplemental label elements	1	Contains isocyanates. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

# **SECTION 3: Composition/information on ingredients**

Product/ingredient name	Identifiers	%	Classification	Туре
Hexamethylene diisocyanate,	REACH #:	≥25 - ≤50	Acute Tox. 4, H332	[1] [2]
oligomers (isocyanurate type)	01-2119485796-17		Skin Sens. 1, H317	
	EC: 500-060-2		STOT SE 3, H335	
	CAS: 28182-81-2			
heptan-2-one	REACH #:	≥10 - ≤25	Flam. Liq. 3, H226	[1] [2]
	01-2119902391-49		Acute Tox. 4, H302	
	EC: 203-767-1		Acute Tox. 4, H332	
	CAS: 110-43-0		STOT SE 3, H336	
	Index: 606-024-00-3			
3-Isocyanatomethyl-	REACH #:	≥5.0 - ≤10	Skin Sens. 1B, H317	[1]
3,5,5-trimethylcyclohexyl	01-2119488734-24		STOT SE 3, H335	
isocyanate, oligomers	EC: 931-312-3			
(isocyanurate type)	CAS: 53880-05-0 (EC			
	931-312-3)			
propyl acetate	REACH #:	≥1.0 - ≤6.1	Flam. Liq. 2, H225	[1] [2]
	01-2119484620-39		Eye Irrit. 2, H319	
	EC: 203-686-1		STOT SE 3, H336	
English (GB)	United K	ingdom (UK)	·	. 2/1

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# **SECTION 3: Composition/information on ingredients**

•	CAS: 109-60-4		EUH066	
Hydrocarbons, C9, aromatics < 0.1% cumene	Index: 607-024-00-6 REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
isobutyl acetate	EC: 203-745-1 CAS: 110-19-0 Index: 607-026-00-7	≥1.0 - ≤5.0	Flam. Liq. 2, H225 EUH066	[1] [2]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥1.0 - ≤3.8	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
Solvent naphtha (petroleum), light arom. Nota(s) P	REACH #: 01-2119486773-24 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≥1.0 - ≤4.4	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
4-isocyanatosulphonyltoluene	REACH #: 01-2119980050-47 EC: 223-810-8 CAS: 4083-64-1 Index: 615-012-00-7	≤0.30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 EUH014	[1] [2]
hexamethylene-di-isocyanate	REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1	<0.10	Acute Tox. 4, H302 Acute Tox. 1, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

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# **SECTION 4: First aid measures**

4.1 Description of first aid measures			
Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>		
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>		
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.		
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.		
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

<u>)</u>
: 📈 known significant effects or critical hazards.
: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
: Can cause central nervous system (CNS) depression.
toms
: No specific data.
<ul> <li>Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness</li> </ul>
<ul> <li>Adverse symptoms may include the following: irritation redness dryness cracking</li> </ul>
: No specific data.
ate medical attention and special treatment needed
: 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.
: No specific treatment.

# SECTION 5: Firefighting measures

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

### 5.2 Special hazards arising from the substance or mixture

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# SECTION 5: Firefighting measures

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Hazards from the substance or mixture	Flammable liquid and vapour. 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 oxides nitrogen oxides Cyanate and isocyanate. hydrogen cyanide
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.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	tective 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised 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 spilt 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 material 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 the 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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## **SECTION 6: Accidental release measures**

Special provisions	: 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 (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
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	: Fut on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. 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 between the following temperatures: 0 to 35°C (32 to 95°F). 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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Precautions should be taken to minimise exposure to atmospheric humidity or water.  $CO_2$  will be formed, which, in closed containers, could result in pressurisation.

### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

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).

## **Occupational exposure limits**

Product/ingredient name	Exposure limit values
✓examethylene diisocyanate, oligomers (isocyanurate type)	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates, all, except methyl isocyanate] Inhalation sensitiser. STEL: 0.07 mg/m <sup>3</sup> , (as -NCO) 15 minutes.
heptan-2-one	TWA: 0.02 mg/m³, (as -NCO) 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin. STEL: 475 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes.
	TWA: 237 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
propyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 1060 mg/m <sup>3</sup> 15 minutes. STEL: 250 ppm 15 minutes. TWA: 849 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours.
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 966 mg/m <sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m <sup>3</sup> 8 hours. TWA: 150 ppm 8 hours.
isobutyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 903 mg/m <sup>3</sup> 15 minutes. STEL: 187 ppm 15 minutes. TWA: 724 mg/m <sup>3</sup> 8 hours. TWA: 150 ppm 8 hours.
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p- or mixed isomers] Absorbed through skin. STEL: 441 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
4-isocyanatosulphonyltoluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates, all, except methyl isocyanate] Inhalation sensitiser. STEL: 0.07 mg/m <sup>3</sup> , (as -NCO) 15 minutes. TWA: 0.02 mg/m <sup>3</sup> , (as -NCO) 8 hours.
hexamethylene-di-isocyanate	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates, all, except methyl isocyanate] Inhalation sensitiser. STEL: 0.07 mg/m <sup>3</sup> , (as -NCO) 15 minutes. TWA: 0.02 mg/m <sup>3</sup> , (as -NCO) 8 hours.

### **Biological exposure indices**

Product/ingredient name	Exposure indices
xylene	XYLENES
	d be made to appropriate monitoring standards. Reference to e documents for methods for the determination of hazardous also be required.

#### **DNELs/DMELs**

: 1.954.2730/E2.5 Code **HS RAPID HARDENER** 

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# **SECTION 8: Exposure controls/personal protection**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Fexamethylene diisocyanate, oligomers (isocyanurate type)	DNEL	Long term Inhalation	0.5 mg/m³	Workers	Local
	DNEL	Short term Inhalation	1 mg/m³	Workers	Local
heptan-2-one	DNEL	Long term Oral	23.32 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	23.32 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	54.27 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	84.31 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	394.25 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	1516 mg/m³	Workers	Systemic
3-Isocyanatomethyl- 3,5,5-trimethylcyclohexyl	DNEL	Long term Inhalation	0.29 mg/m³	Workers	Local
isocyanate, oligomers (isocyanurate type)					
	DNEL	Short term Inhalation	0.58 mg/m <sup>3</sup>	Workers	Local
propyl acetate	DNEL	Long term Inhalation	149 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	210 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	298 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	420 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	420 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	840 mg/m <sup>3</sup>	Workers	Local
Hydrocarbons, C9, aromatics < 0.1% cumene	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	150 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	11 mg/kg	General population	Systemic
	DNEL	Long term Oral	11 mg/kg	General population	Systemic
	DNEL	Long term Inhalation	32 mg/m <sup>3</sup>	General population	Systemic
n-butyl acetate	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Systemic
-	DNEL	Long term Dermal	11 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	35.7 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	48 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
isobutyl acetate	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	10 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	10 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	35.7 mg/m <sup>3</sup>	General population	-
	DNEL	Long term Inhalation	35.7 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
-	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
					-
English (GB)		United King	gdom (UK)		8/19

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# SECTION 8: Exposure controls/personal protection

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	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
Solvent naphtha (petroleum),	DNEL	Long term Inhalation	150 mg/m³	Workers	Systemic
light arom. Nota(s) P		-	-		-
	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	32 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	11 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	11 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.41 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	1.9 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	178.57 mg/m³	General population	Local
	DNEL	Short term Inhalation	640 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	837.5 mg/m³	Workers	Local
	DNEL	Short term Inhalation	1066.67 mg/m³	Workers	Local
	DNEL	Short term Inhalation	1152 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	1286.4 mg/m³	Workers	Systemic
4-isocyanatosulphonyltoluene	DNEL	Long term Oral	0.46 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.46 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.8 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.92 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.24 mg/m <sup>3</sup>	Workers	Systemic
hexamethylene-di-isocyanate	DNEL	Long term Inhalation	0.035 mg/m³	Workers	Local
	DNEL	Short term Inhalation	0.07 mg/m³	Workers	Local

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
₩examethylene diisocyanate, oligomers	Fresh water	0.127 mg/l	Assessment Factors
(isocyanurate type)			
	Marine water	0.0127 mg/l	Assessment Factors
		88 mg/l	Assessment Factors
	Fresh water sediment	266701 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	26670 mg/kg dwt	Equilibrium Partitioning
	Soil	53182 mg/kg	Equilibrium Partitioning
heptan-2-one	Fresh water	0.0982 mg/l	Assessment Factors
	Marine water	0.00982 mg/l	Assessment Factors
	Fresh water sediment	1.89 mg/kg	Equilibrium Partitioning
	Marine water sediment	0.189 mg/kg	Equilibrium Partitioning
		12.5 mg/l	Assessment Factors
	Soil	0.321 mg/kg	Equilibrium Partitioning
n-butyl acetate	Fresh water	0.18 mg/l	-
	Marine water	0.018 mg/l	-
	Fresh water sediment	0.981 mg/kg	-
	Marine water sediment	0.0981 mg/kg	-
	Sewage Treatment Plant	35.6 mg/l	-
	Soil	0.0903 mg/kg	-
xylene	Fresh water	0.327 mg/l	-
	Marine water	0.327 mg/l	-
	Sewage Treatment Plant	6.58 mg/l	-
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg	-
4-isocyanatosulphonyltoluene	Fresh water	0.03 mg/l	Assessment Factors
	Marine water	0.003 mg/l	Assessment Factors
	Sewage Treatment Plant		Assessment Factors
	Fresh water sediment	0.172 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.017 mg/kg dwt	Equilibrium Partitioning
	Soil	0.017 mg/kg dwt	Equilibrium Partitioning
English (GB)	United Kingdom (UK	X)	9/19

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# **SECTION 8: Exposure controls/personal protection**

hexamethylene-di-isocyanate	Fresh water	0.0774 mg/l	Assessment Factors
	Marine water	0.00774 mg/l	Assessment Factors
	Sewage Treatment Plant	8.42 mg/l	Assessment Factors
	Fresh water sediment		Equilibrium Partitioning
	Marine water sediment	0.001334 mg/kg	Equilibrium Partitioning
		dwt	
	Soil	0.0026 mg/kg dwt	Equilibrium Partitioning

#### 8.2 Exposure controls Appropriate engineering : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below controls any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Individual protection measures : Wash hands, forearms and face thoroughly after handling chemical products, before **Hygiene measures** eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Eye/face protection : Chemical splash goggles. **Skin protection** Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. 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. butyl rubber **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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Use an air-fed respirator unless a site-specific assessment determines that an air-fed **Respiratory protection** respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3 **Restrictions on use** : Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

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# **SECTION 8: Exposure controls/personal protection**

Environmental exposure	: Emissions from ventilation or work process equipment should be checked to ensure
controls	they comply with the requirements of environmental protection legislation. In some
	cases, fume scrubbers, filters or engineering modifications to the process equipment
	will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

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

### 9.1 Information on basic physical and chemical properties

Appearance				
Physical state	: Liquid.			
Colour	: Colour	less.		
Odour	: Chara	cteristic.		
Odour threshold	: Not av	ailable.		
Melting point/freezing point				rature: <-20°C (<-4°F) This is based on -one. Weighted average: -47.77°C (-54°F)
Initial boiling point and boiling range	: >37.78	3°C (>100°F)		
Flammability (solid, gas)	: liquid			
Upper/lower flammability or explosive limits	: Øreate	est known range	e: Lower: 2.4% Upp	er: 10.5% (isobutyl acetate)
Flash point	: 🕅 osec	l cup: 23°C (73	.4°F)	
Auto-ignition temperature	:			
Ingredient name		°C	°F	Method
₩ydrocarbons, C9, aromatics < 0.1% o	cumene	280 to 470	536 to 878	

: Not applicable.
Not applicable. insoluble in water.
: Kinematic (40°C): >21 mm²/s
:
Result
Not soluble
: No.
-

Partition coefficient: n-octanol/ : Not applicable.

ŝ

#### water

Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
propyl acetate	35.92805	4.8					
Relative density	: 1		I				
Vapour density	: Hig = 1)		n value: 4.15 (Air =	= 1) (3-ethyltolu	iene). Wei	ghted average: 3.86	
Explosive properties		: The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.					
Oxidising properties Particle characteristics	: Pro	duct does ı	not present an oxic	dizing hazard.			

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# 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	: In a fire, hazardous decomposition products may be produced. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen cyanide

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
	LD50 Dermal	Rabbit	>2000 mg/kg	-
diisocyanate, oligomers				
(isocyanurate type)				
	LD50 Oral	Rat - Female	>2500 mg/kg	-
heptan-2-one	LC50 Inhalation Vapour	Rat	16.7 mg/l	4 hours
	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
3-Isocyanatomethyl-	LC50 Inhalation Dusts and	Rat	>5010 mg/m <sup>3</sup>	4 hours
3,5,5-trimethylcyclohexyl	mists		J	
isocyanate, oligomers				
(isocyanurate type)				
	LD50 Oral	Rat	>14 g/kg	-
propyl acetate	LD50 Oral	Rat	9370 mg/kg	-
Hydrocarbons, C9,	LD50 Dermal	Rabbit - Male,	>2000 mg/kg	-
aromatics < 0.1% cumene		Female	J 34 3 3	
	LD50 Oral	Rat	8400 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
, ,	LC50 Inhalation Vapour	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	_
	LD50 Oral	Rat	10.768 g/kg	-
isobutyl acetate	LD50 Dermal	Rabbit	>17400 mg/kg	-
	LD50 Oral	Rat	13400 mg/kg	_
xylene	LD50 Dermal	Rabbit	1.7 g/kg	_
· · · · · ·	LD50 Oral	Rat	4.3 g/kg	_
Solvent naphtha	LD50 Dermal	Rabbit	3.48 g/kg	_
(petroleum), light arom. Nota			5	
(s) P				
(-) -	LD50 Oral	Rat	8400 mg/kg	_
4-isocyanatosulphonyltoluene	LD50 Oral	Rat	2234 mg/kg	-
hexamethylene-di-	LC50 Inhalation Dusts and	Rat	124 mg/m <sup>3</sup>	4 hours
isocyanate	mists			
,	LC50 Inhalation Vapour	Rat	151 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	0.57 g/kg	-
	LD50 Oral	Rat	0.71 g/kg	-

Acute toxicity estimates English (GB)

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# **SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
S RAPID HARDENER	8018.4	50245.3	N/A	66.6	3.1
Hexamethylene diisocyanate, oligomers (isocyanurate type)	N/A	N/A	N/A	N/A	1.5
heptan-2-one	1600	10206	N/A	16.7	N/A
propyl acetate	9370	N/A	N/A	N/A	N/A
Hydrocarbons, C9, aromatics < 0.1% cumene	8400	N/A	N/A	N/A	N/A
n-butyl acetate	10768	N/A	N/A	N/A	N/A
isobutyl acetate	13400	N/A	N/A	N/A	N/A
xylene	4300	1700	N/A	11	N/A
Solvent naphtha (petroleum), light arom. Nota(s) P	8400	3480	N/A	N/A	N/A
4-isocyanatosulphonyltoluene	2234	N/A	N/A	N/A	N/A
hexamethylene-di-isocyanate	710	N/A	N/A	0.151	N/A

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>x</b> ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary	: Not available.				

Skin : There are no data available on the mixture itself.

Eyes

: There are no data available on the mixture itself.

Respiratory

: There are no data available on the mixture itself.

## **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
Isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type)	skin	Guinea pig	Sensitising
Conclusion/Summary	-		
Skin	: There are no da	ata available on the mixture if	tself.
Respiratory	: There are no da	ata available on the mixture it	tself.

Respiratory	
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Teratogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.

## Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Hexamethylene diisocyanate, oligomers (isocyanurate type)	Category 3	-	Respiratory tract irritation
heptan-2-one	Category 3	-	Narcotic effects
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type)	Category 3	-	Respiratory tract irritation
propyl acetate	Category 3	-	Narcotic effects
Hydrocarbons, C9, aromatics < 0.1% cumene	Category 3	-	Respiratory tract irritation
English (GB) United	Kingdom (UK)		13/19

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# **SECTION 11: Toxicological information**

-			
	Category 3		Narcotic effects
n-butyl acetate	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract
			irritation
Solvent naphtha (petroleum), light arom. Nota(s) P	Category 3	-	Narcotic effects
4-isocyanatosulphonyltoluene	Category 3	-	Respiratory tract
			irritation
hexamethylene-di-isocyanate	Category 3	-	Respiratory tract
			irritation

<u>Specific target organ toxicity (repeated exposure)</u> Not available.

## **Aspiration hazard**

Product/ingredient name	Result
Hydrocarbons, C9, aromatics < 0.1% cumene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light arom. Nota(s) P	ASPIRATION HAZARD - Category 1

Information on likely routes	: Not available.
of exposure	

Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	:	Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	:	Can cause central nervous system (CNS) depression.
Symptoms related to the phy	<u>sic</u>	al, chemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	:	Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	:	No specific data.
Short term exposure Potential immediate		as well as chronic effects from short and long-term exposure Not available.
effects Retential delayed effects		Not available.
Potential delayed effects	1	
Long term exposure Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

English (GB)

United Kingdom (UK)

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# **SECTION 11: Toxicological information**

# Potential chronic health effects

# Not available.

Conclusion/Summary	: Not available.
General	<ul> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
Carcinogenicity	: 📈 known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

## Other information

: Not available.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Hexamethylene diisocyanate, oligomers (isocyanurate type)	Acute EC50 >1000 mg/l	Algae - scenedesmus subspicatus	72 hours
	Acute EC50 >100 mg/l	Daphnia - daphnia magna	48 hours
	Acute LC50 >100 mg/l	Fish - Danio rerio (zebra fish)	96 hours
heptan-2-one	Acute LC50 131 mg/l	Fish	96 hours
Hydrocarbons, C9, aromatics < 0.1% cumene	LC50 9.2 mg/l	Fish	96 hours
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
Solvent naphtha (petroleum), light arom. Nota(s) P		Fish	96 hours

**Conclusion/Summary** : Not available.

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Heptan-2-one Hydrocarbons, C9, aromatics < 0.1% cumene	OECD 310 -	69 % - Readily - 28 days 78 % - 28 days	-	-
n-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days	-	-

# Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
✓examethylene diisocyanate, oligomers (isocyanurate type)	-	-	Not readily
heptan-2-one Hydrocarbons, C9, aromatics < 0.1% cumene	-	-	Readily Readily
n-butyl acetate xylene	-	-	Readily Readily

## 12.3 Bioaccumulative potential

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# **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
Froduct/ingredient name	LOGLOW	ВСГ	Fotential
Hexamethylene	5.54	3.2	Low
diisocyanate, oligomers			
(isocyanurate type)			
heptan-2-one	2.26	-	Low
propyl acetate	1.4	-	Low
Hydrocarbons, C9,	3.7 to 4.5	10 to 2500	High
aromatics < 0.1% cumene			J
n-butyl acetate	2.3	-	Low
isobutyl acetate	2.3	-	Low
xylene	3.12	7.4 to 18.5	Low
hexamethylene-di-isocyanate	0.02	-	Low

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

#### 12.5 Results of PBT and vPvB assessment

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

**12.6 Other adverse effects** : No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

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

### **13.1 Waste treatment methods**

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.
Waste catalogue	

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	
Methods of disposal	<ul> <li>The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.</li> </ul>
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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

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# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	111	III	III	Ш
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.
ADR/RID :	None identified.	-		•
Tunnel code :	(D/E)			
ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.				
IMDG :	None identified.			
IATA :	None identified.			
14.6 Special preca user	upright and		always transport in close sons transporting the proc	
14.7 Transport in b according to IMO instruments	ulk : Not availat	ble.		

## instruments

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

#### **Ozone depleting substances**

Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

## Seveso Directive

This product is controlled under the Seveso Directive.

## Danger criteria

Category

P5c

English (GB)

**United Kingdom (UK)** 

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# **SECTION 16: Other information**

✓ Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and
	Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019
	No. 720 and amendments
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = GB 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

Classification	Justification
<b>F</b> lam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

## Full text of abbreviated H statements

<mark>⊮</mark> 225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
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.
H330	Fatal 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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH014	Reacts violently with water.
EUH066	Repeated exposure may cause skin dryness or cracking.

# Full text of classifications

Acute Tox. 1	ACUTE TOXICITY - Category 1
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

### <u>History</u>

Date of issue/ Date of revision

: 27 June 2024

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Code : 1.954.2730/ HS RAPID HARDENER	'E2.5	Date of issue/Date of revision	: 27 June 2024	
SECTION 16: Other information				
Date of previous issue	: 19 June 2024			I
Prepared by	: EHS			

# Version

## <u>Disclaimer</u>

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

: 1.08