SAFETY DATA SHEET

👜 <u>AUTOCOLOR</u>

Date of issue/Date of revision

: 1 July 2024

Version : 1.08

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

1.1 Product identifier

Product name	: HS HARDENER - MEDIUM
Product code	: P210-8633/E2.5
Product type	: Liquid.
Other means of identification	: Not available.
	K25V-03SU-P00J-CG9D
1 2 Relevant identified up	ses of the substance or mixture and uses advised against

1.2 Relevant identified use	es of the substance of 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 Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 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

: Warning

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SECTION 2: Hazards	ntification	
Hazard statements	ammable liquid and vapour. auses skin irritation. ay cause an allergic skin reaction. armful if inhaled. ay cause respiratory irritation. ay cause drowsiness or dizziness. armful to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	fear protective gloves. Keep away from heat, hot surfaces, sparks, open fland other ignition sources. No smoking. Avoid release to the environment. A reathing vapour. Wash thoroughly after handling.	
Response	ot applicable.	
Storage	ot applicable.	
Disposal	ispose of contents and container in accordance with all local, regional, national international regulations.	onal
	280, P210, P273, P261, P264, P501	
Supplemental label elements	ontains 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	ot applicable.	
Special packaging requirem		
Containers to be fitted with child-resistant fastenings	ot applicable.	
Tactile warning of danger	ot applicable.	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	nis mixture does not contain any substances that are assessed to be a PBT ^p vB.	or a
Other hazards which do not result in classification	rolonged or repeated contact may dry skin and cause irritation.	

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Туре
Hexamethylene diisocyanate, oligomers (isocyanurate type)	REACH #: 01-2119485796-17 EC: 500-060-2 CAS: 28182-81-2	≥50 - ≤75	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
heptan-2-one	REACH #: 01-2119902391-49 EC: 203-767-1 CAS: 110-43-0 Index: 606-024-00-3	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 STOT SE 3, H336	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥5.0 - ≤10	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
isobutyl acetate	EC: 203-745-1 CAS: 110-19-0	≥5.0 - ≤10	Flam. Liq. 2, H225 EUH066	[1] [2]
English (GB)	United P	Kingdom (UK)		2/1

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SECTION 3: Compo	osition/information or	n ingredients		
2-ethylhexyl acetate	Index: 607-026-00-7 EC: 203-079-1 CAS: 103-09-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315	[1]

xylene	CAS: 103-09-3 REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥1.0 - ≤5.0	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]
3-Isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type)	REACH #: 01-2119488734-24 EC: 931-312-3 CAS: 53880-05-0 (EC 931-312-3)	≥1.0 - ≤5.0	Skin Sens. 1B, H317 STOT SE 3, H335	[1]
propyl acetate	REACH #: 01-2119484620-39 EC: 203-686-1 CAS: 109-60-4 Index: 607-024-00-6	≥1.0 - ≤4.7	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
Hydrocarbons, C9, aromatics < 0.1% cumene	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]
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 - ≤5.0	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 pxylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. Type

[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.

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SECTION 3: Composition/information on ingredients

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid n	neasures
Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: 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.
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

Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	1	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	:	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	Can cause central nervous system (CNS) depression.
Over-exposure signs/sympto	on	<u>15</u>
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	:	Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	;	No specific data.
4.3 Indication of any immedia	te	medical attention and special treatment needed
Notes to physician		In case of inhalation of decomposition products in a fire, symptoms may be delayed.
	1	The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	;	No specific treatment.

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SECTION 5: Firefig	hting measures	
5.1 Extinguishing media Suitable extinguishing	: Use dry chemical, CO ₂ , water spray (fog) or foa	im.

media	: Use dry chemical, CO ₂ , water sp
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 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	ote	ctive 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	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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SECTION 6: Accidental release measures

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.
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	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing 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.

CO₂ will be formed, which, in closed containers, could result in pressurisation.

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SECTION 7: Handling and storage

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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 ³ , (as -NCO) 15 minutes. TWA: 0.02 mg/m ³ , (as -NCO) 8 hours.
heptan-2-one	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.
	STEL: 475 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 237 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
isobutyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 903 mg/m ³ 15 minutes. STEL: 187 ppm 15 minutes. TWA: 724 mg/m ³ 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 ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
propyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 1060 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 849 mg/m ³ 8 hours. TWA: 200 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 ³ , (as -NCO) 15 minutes. TWA: 0.02 mg/m ³ , (as -NCO) 8 hours.
hexamethylene-di-isocyanate	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates, all, except methyl isocyanate] Inhalation sensitiser. STEL: 0.07 mg/m ³ , (as -NCO) 15 minutes. TWA: 0.02 mg/m ³ , (as -NCO) 8 hours.

Biological exposure indices

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

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SECTION 8: Exposure controls/personal protection

DNELs/DMELs

Hexamethylene diisocyanate, oligomers (isocyanurate type) neptan-2-one	DNEL	Long term Inhalation	0.5 mg/m ³	Workers	
		3	0.0 mg/m	WUIKEIS	Local
neptan-2-one	DNEL	Short term Inhalation	1 mg/m³	Workers	Local
	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	
	DNEL	Long term Dermal	54.27 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	84.31 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	394.25 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	1516 mg/m ³	Workers	Systemic
n-butyl acetate	DNEL	Long term Inhalation	300 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	11 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	
	DNEL	Short term Oral	2 mg/kg bw/day	General population	
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m ³	General population	
	DNEL	Long term Inhalation	35.7 mg/m ³	General population	
	DNEL	Long term Inhalation	48 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	300 mg/m ³	General population	
	DNEL	Short term Inhalation	300 mg/m ³	General population	
	DNEL	Long term Inhalation	300 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Systemic
sobutyl acotato	DNEL	Short term Inhalation	300 mg/m ³		-
sobutyl acetate	DNEL			General population	
	DNEL	Short term Oral	5 mg/kg bw/day	General population	
		Long term Oral	5 mg/kg bw/day	General population	
	DNEL	Short term Dermal	5 mg/kg bw/day	General population	-
	DNEL	Long term Dermal	5 mg/kg bw/day	General population	
	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 ³	General population	
	DNEL	Long term Inhalation	35.7 mg/m ³	General population	
	DNEL	Short term Inhalation	300 mg/m ³	General population	
	DNEL	Long term Inhalation	300 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	300 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Systemic
ethylhexyl acetate	DNEL	Long term Oral	1.5 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	3 mg/m³	General population	
	DNEL	Long term Dermal	15 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	17 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	30 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	35.5 mg/m³	General population	
	DNEL	Long term Inhalation	35.5 mg/m ³	General population	Local
	DNEL	Short term Inhalation	71 mg/m³	Workers	Local
	DNEL	Long term Inhalation	71 mg/m ³	Workers	Local
ylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
-	DNEL	Long term Inhalation	65.3 mg/m ³	General population	
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	
	DNEL	Short term Inhalation	260 mg/m ³	General population	
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
3-Isocyanatomethyl-	DNEL	Long term Inhalation	0.29 mg/m ³	Workers	Local
-isocyanatomethyl-	DINEL		0.29 mg/m	VVUINCIS	LUCAI
	1	United Kin	<u> </u>	1	8/19

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SECTION 8: Exposure controls/personal protection

3,5,5-trimethylcyclohexyl					I
isocyanate, oligomers					
(isocyanurate type)					
	DNEL	Short term Inhalation	0.58 mg/m ³	Workers	Local
propyl acetate	DNEL	Long term Inhalation	149 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	210 mg/m³	General population	Local
	DNEL	Short term Inhalation	298 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	420 mg/m ³	General population	Local
	DNEL	Long term Inhalation	420 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	840 mg/m ³	Workers	Local
Hydrocarbons, C9, aromatics	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
< 0.1% cumene		-			-
	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 ³	General population	Systemic
Solvent naphtha (petroleum),	DNEL	Long term Inhalation	150 mg/m³	Workers	Systemic
light arom. Nota(s) P			o		.
	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	32 mg/m ³	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 ³	General population	Systemic
	DNEL	Long term Inhalation	1.9 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	178.57 mg/m ³	General population	
	DNEL	Short term Inhalation	640 mg/m ³	General population	
	DNEL	Long term Inhalation	837.5 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	1066.67 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	1152 mg/m ³	General population Workers	
	DNEL	Short term Inhalation	1286.4 mg/m ³		Systemic
4-isocyanatosulphonyltoluene	DNEL	Long term Oral	0.46 mg/kg bw/day	General population	
	DNEL	Long term Dermal	0.46 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.8 mg/m^3	General population	
	DNEL	Long term Dermal	0.92 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.24 mg/m ³	Workers	Systemic
hexamethylene-di-isocyanate	DNEL	Long term Inhalation	0.035 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	0.07 mg/m³	Workers	Local

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Hexamethylene diisocyanate, oligomers (isocyanurate type)	Fresh water	0.127 mg/l	Assessment Factors
	Marine water	0.0127 mg/l	Assessment Factors
	Sewage Treatment Plant	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
ieptan-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
	Sewage Treatment Plant	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	-
kylene	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	-
English (GB)	United Kingdom (UK	<u>(</u>)	9/19

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SECTION 8: Exposure controls/personal protection

	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	0.4 mg/l	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
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	0.01334 mg/kg dwt	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 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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	ures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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 Skin protection	: Chemical splash goggles.
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 anti-static 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.
Respiratory protection	

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SECTION 8: Exposure controls/personal protection

	Use an air-fed respirator unless a site-specific assessment determines that an air-fed 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.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance						
Physical state	: Li	quid.				
Colour	: C	: Colourless.				
Odour	: C	haracteristic.				
Odour threshold	: N	ot available.				
Melting point/freezing point						-4°F) This is based on average: -52.4°C (-62.3°F)
Initial boiling point and boiling range	: >:	37.78°C (>100)°F)			
Flammability (solid, gas)	: lic	quid				
Upper/lower flammability or explosive limits	: G	reatest knowr	n range: Lower: 2.49	% Upper: 10	.5% (isobut	yl acetate)
Flash point	: C	losed cup: 23	°C (73.4°F)			
Auto-ignition temperature	:					
Ingredient name		°C	°F	N	lethod	
2-ethylhexyl acetate		268	514.4			
рН		ot applicable.				
Viscosity			insoluble in water. C): >21 mm ² /s			
Solubility(ies)	. N	inematic (40 (<i>5</i>). <i>2</i> 1 mm /5			
Media	•	Decult				
		Result				
cold water		Not soluble				
Miscible with water	: N	0.				
Partition coefficient: n-octar water	nol/ : N	ot applicable.				
Vapour pressure	:					
		Vapour Pres	sure at 20°C	V	apour pres	ssure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
propyl acetate	35.92805	4.8				
Relative density	: 1	I	 	1	I	I

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SECTION 9: Physical and chemical properties

Vapour density	: Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.88 (Air = 1)
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	: Product does not present an oxidizing hazard.
Median particle size	: Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: 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				
⊮ examethylene	LD50 Dermal	Rabbit	>2000 mg/kg	-				
diisocyanate, oligomers			0.0					
(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	-				
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	-				
2-ethylhexyl acetate	LD50 Oral	Rat	3 g/kg	-				
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-				
	LD50 Oral	Rat	4.3 g/kg	-				
3-Isocyanatomethyl-	LC50 Inhalation Dusts and	Rat	>5010 mg/m ³	4 hours				
3,5,5-trimethylcyclohexyl	mists		C C					
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						
	LD50 Oral	Rat	8400 mg/kg	-				
Solvent naphtha	LD50 Dermal	Rabbit	3.48 g/kg	-				
English (GB)	English (GB) United Kingdom (UK) 12							

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SECTION 11: Toxicological information

	•			
(petroleum), light arom. Nota (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/m³	4 hours
isocyanate	mists			
	LC50 Inhalation Vapour	Rat	151 mg/m³	4 hours
	LD50 Dermal	Rabbit	0.57 g/kg	-
	LD50 Oral	Rat	0.71 g/kg	-

Conclusion/Summary Acute toxicity estimates

: There are no data available on the mixture itself.

Product/ingredient name Oral (mg/ Dermal Inhalation Inhalation Inhalation kg) (mg/kg) (gases) (vapours) (dusts (mg/l) and mists) (ppm) (mg/l)S HARDENER - MEDIUM 11547.5 N/A 87.1 2.9 48546.2 N/A 1.5 Hexamethylene diisocyanate, oligomers N/A N/A N/A (isocyanurate type) heptan-2-one 1600 10206 N/A 16.7 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 2-ethylhexyl acetate 3000 N/A N/A N/A N/A xylene 1700 4300 N/A 11 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 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	
₩ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-	
Conclusion/Summary Skin	Not available.There are no data available on the mixture itself.					
Eyes Respiratory <u>Sensitisation</u>	There are no data available on the mixture itself. There are no data available on the mixture itself.					

Product/ingredient name	Route of exposure	Species	Result		
3-Isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type)	skin	Guinea pig	Sensitising		
Conclusion/Summary					
Skin	: There are no dat	a available on the mixture itself.			
Respiratory	: There are no dat	a available on the mixture itself.			
<u>Mutagenicity</u>					
Conclusion/Summary <u>Carcinogenicity</u>	: There are no data available on the mixture itself.				
Conclusion/Summary <u>Reproductive toxicity</u>	: There are no data available on the mixture itself.				
Conclusion/Summary <u>Teratogenicity</u>	: There are no data available on the mixture itself.				
Conclusion/Summary	: There are no dat	a available on the mixture itself.			
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SECTION 11: Toxicological information

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
n-butyl acetate	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
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
	Category 3		Narcotic effects
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

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

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

Information on likely routes : Not available.

of exposure	es : Not available.
Potential acute health eff	<u>ects</u>
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	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Symptoms related to the	physical, chemical and toxicological characteristics

Eye contact	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	Adverse symptoms may include the following: irritation redness dryness cracking

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SECTION 11: Toxicological information

Ingestion

: No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Short term exposure				
Potential immediate effects	1	Not available.		
Potential delayed effects	:	Not available.		
Long term exposure				
Potential immediate effects	1	Not available.		
Potential delayed effects	1	Not available.		
Potential chronic health effe	ect	<u>5</u>		
Not available.				
Conclusion/Summary	:	Not available.		
General	:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.		
Carcinogenicity	1	No known significant effects or critical hazards.		
Mutagenicity	1	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 - <i>daphnia magna</i>	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
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
Hydrocarbons, C9, aromatics < 0.1% cumene	LC50 9.2 mg/l	Fish	96 hours
Solvent naphtha (petroleum), light arom. Nota(s) P	Acute LC50 8.2 mg/l	Fish	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

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

Conclusion/Summary : Not available.

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SECTION 12: Ecological information

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

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
⊮ examethylene	5.54	3.2	Low	
diisocyanate, oligomers				
(isocyanurate type)				
heptan-2-one	2.26	-	Low	
n-butyl acetate	2.3	-	Low	
isobutyl acetate	2.3	-	Low	
2-ethylhexyl acetate	4.2	-	High	
xylene	3.12	7.4 to 18.5	Low	
propyl acetate	1.4	-	Low	
Hydrocarbons, C9,	3.7 to 4.5	10 to 2500	High	
aromatics < 0.1% cumene			-	
hexamethylene-di-isocyanate	0.02	-	Low	

12.4 Mobility in soil

Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 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

English (GB)

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SECTION 13: Disposal considerations

Methods of disposal	packaging sh	on of waste should be avoided or minimised wherever possible. Waste would be recycled. Incineration or landfill should only be considered and is not feasible.
Type of packaging		Waste catalogue
Container	15 01 04	metallic packaging
Special precautions	taken when h Empty contai residues may container. D thoroughly in	and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ners or liners may retain some product residues. Vapour from product create a highly flammable or explosive atmosphere inside the o not cut, weld or grind used containers unless they have been cleaned ternally. Avoid dispersal of spilt material and runoff and contact with ys, drains and sewers.

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		III		
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

- ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
- IMDG: None identified.IATA: None identified.

in the international internati

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

SECTION 15: Regulatory information

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

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SECTION 15: Regulatory information

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

SECTION 16: Other information

Indicates	information	that has	changed from	previously	vissued version
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Abbroviations and	ATE - Aguta Taviaity Estimate
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
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	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

H 225	Linkhyflemmenelle linydd and ymenyr
	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

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SECTION 16: Other information

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
History	
Date of issue/ Date of	: 1 July 2024
revision	
Date of previous issue	e : 27 June 2024
Prepared by	: EHS
Version	: 1.08

Version

Disclaimer

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.