

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

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

1.1 Product identifier	
Product identifier	: VR-1131
Product name	: Valueactivator
Product type	: Liquid.
Other means of identification	: 1250060787
Date of issue/ Date of revision	: 16 May 2025
Version	: 1.59
Date of previous issue	: 9 May 2025

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

Identified uses	:	Coating component.
Uses advised against	:	Not for sale to or use by consumers.

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

Axalta Coating Systems Germany GmbH & Co. KG Christbusch 25 DE 42285 Wuppertal +49 (0)202 529-0 e-mail address of person : sds-competence@axalta.com responsible for this SDS

Axalta Coating Systems UK Ltd. Unit 1, Quadrant Park, Mundells GB Welwyn Garden City, Hertfordshire, AL7 1FS +44 (0)1707 518 000

#### **1.4 Emergency telephone number**

#### **Supplier**

**Telephone number** : +(44)-870-8200418

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition

: Mixture

## Classification according to UK CLP/GHS

Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336 STOT RE 2, H373 Aquatic Chronic 3, H412

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# **SECTION 2: Hazards identification**

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

:		
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	Signal word	:	Warning
	Contains	:	Hexamethylene diisocyanate, oligomers n-butyl acetate Reaction mass of ethylbenzene and xylene hexamethylene-di-isocyanate
	Hazard statements	:	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H332 - Harmful if inhaled.</li> <li>H335 - May cause respiratory irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>
	Precautionary statements		
	Prevention	:	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapour.</li> <li>P264 - Wash hands thoroughly after handling.</li> </ul>
	Response	:	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Storage	:	Not applicable.
	Disposal	:	Not applicable.
	Supplemental label elements	:	EUH204 - 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.
2	2.3 Other hazards		
	Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Other hazards which do not result in classification	:	None known.

<b>SECTION 3: Composition</b>	n/information on ingredients
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• Mixture

Product/ingredient name	Identifiers	%	Classification	Туре
Hexamethylene diisocyanate, oligomers	REACH #: 01-2119485796-17 EC: 931-274-8 CAS: 28182-81-2	≥50 - ≤75	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119539452-40 EC: 905-588-0	≥10 - ≤22	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1]
Hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-668-5	≤5	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
hexamethylene-di-isocyanate	REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1	<0.1	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 See Section 16 for	[1] [2]
			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.

Туре

2.2 Mixtures

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

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

## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

SECTION 4: First aid measures			
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.		
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.		
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.		
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.		

## 4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/s	<u>ymptoms</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
Ingestion	: No specific data.
4.3 Indication of any imi	nediate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media			
Suitable extinguishing media	:	Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray or mist.	
Unsuitable extinguishing media	:	Do not use water jet.	
5.2 Special hazards arising from the substance or mixture			
Hazards from the substance or mixture	:	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.	
Hazardous combustion products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.	

5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.

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

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
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	:	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.

#### 6.3 Methods and material for containment and cleaning up

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).

6.4 Reference to other	: See Section 1 for emergency contact information.
sections	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).

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.

Examination of lung function should be carried out on a regular basis on persons spraying this mixture.

#### 7.1 Precautions for safe handling

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# SECTION 7: Handling and storage

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Care should be taken when re-opening partly-used containers. Precautions should be taken to minimise exposure to atmospheric humidity or water. CO<sub>2</sub> will be formed, which, in closed containers, could result in pressurisation. Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

## Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

#### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

## Seveso Directive - Reporting thresholds

#### <u>Danger criteria</u>

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonnes	50000 tonnes

#### 7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

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

#### 8.1 Control parameters

Occupational exposure limits	
Hexamethylene diisocyanate, oligomers	EH40/2005 WELs (United Kingdom (UK), 1/2020) [isocyanates,
	all, except methyl isocyanate] Inhalation sensitiser.
	STEL 15 minutes: 0.07 mg/m³ (as -NCO).
	TWA 8 hours: 0.02 mg/m³ (as -NCO).
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020)
	STEL 15 minutes: 966 mg/m <sup>3</sup> .
	STEL 15 minutes: 200 ppm.
	TWA 8 hours: 724 mg/m <sup>3</sup> .
	TWA 8 hours: 150 ppm.
ethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020)
	STEL 15 minutes: 400 ppm.
	TWA 8 hours: 200 ppm.
	STEL 15 minutes: 1468 mg/m <sup>3</sup> .
	TWA 8 hours: 734 mg/m <sup>3</sup> .

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

SECTION 0. Exposure	controls/perse	
hexamethylene-di-isocyanate	all,	<b>10/2005 WELs (United Kingdom (UK), 1/2020) [isocyanates,</b> <b>except methyl isocyanate]</b> Inhalation sensitiser. EL 15 minutes: 0.07 mg/m <sup>3</sup> (as -NCO).
	TV	VA 8 hours: 0.02 mg/m³ (as -NCO).
Biological exposure indices No exposure indices known.		
Recommended monitoring : procedures	Standard BS EN 689 exposure by inhalati measurement strate Guide for the applica chemical and biolog atmospheres - Gene measurement of che	e made to monitoring standards, such as the following: British 9 (Workplace atmospheres - Guidance for the assessment of on to chemical agents for comparison with limit values and gy) British Standard BS EN 14042 (Workplace atmospheres - ation and use of procedures for the assessment of exposure to ical agents) British Standard BS EN 482 (Workplace eral requirements for the performance of procedures for the emical agents) Reference to national guidance documents for ermination of hazardous substances will also be required.
DNELs/DMELs		
Product/ingredient name		Result
Hexamethylene diisocyanate, c	ligomers	DNEL - Workers - Long term - Inhalation 0.5 mg/m³ <u>Effects</u> : Local
		<b>DNEL - Workers - Short term - Inhalation</b> 1 mg/m³ <u>Effects</u> : Local
n-butyl acetate		<b>DNEL - Workers - Short term - Dermal</b> 11 mg/kg bw/day <u>Effects</u> : Systemic
		<b>DNEL - General population - Long term - Oral</b> 2 mg/kg bw/day <u>Effects</u> : Systemic
		<b>DNEL - General population - Short term - Oral</b> 2 mg/kg bw/day <u>Effects</u> : Systemic
		<b>DNEL - General population - Long term - Dermal</b> 3.4 mg/kg bw/day <u>Effects</u> : Systemic
		<b>DNEL - General population - Short term - Dermal</b> 6 mg/kg bw/day <u>Effects</u> : Systemic
		<b>DNEL - Workers - Short term - Dermal</b> 11 mg/kg bw/day <u>Effects</u> : Systemic
		<b>DNEL - General population - Long term - Inhalation</b> 12 mg/m <sup>3</sup> <u>Effects</u> : Systemic
		DNEL - General population - Long term - Inhalation 35.7 mg/m <sup>3</sup> Effects: Local
		DNEL - General population - Short term - Inhalation 300 mg/m <sup>3</sup> Effects: Local
		DNEL Constal nonvertion Chart town Inhelation

DNEL - General population - Short term - Inhalation

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300 mg/m<sup>3</sup> Effects: Systemic

	<u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 300 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Short term - Inhalation</b> 600 mg/m³ <u>Effects</u> : Local
	DNEL - Workers - Short term - Inhalation 600 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 300 mg/m <sup>3</sup> Effects: Systemic
Reaction mass of ethylbenzene and xylene	<b>DNEL - Workers - Long term - Dermal</b> 212 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 221 mg/m <sup>3</sup> Effects: Systemic
Hydrocarbons, C9, aromatics	DNEL - Workers - Long term - Inhalation 151 mg/m <sup>3</sup> Effects: Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 12.5 mg/kg bw/day <u>Effects</u> : Systemic
ethyl acetate	DNEL - Workers - Long term - Inhalation 200 ppm <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 63 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Oral</b> 4.5 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Dermal</b> 37 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 63 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 367 mg/m <sup>3</sup> Effects: Local
	DNEL - General population - Long term - Inhalation 367 mg/m <sup>3</sup> Effects: Systemic
	DNEL - General population - Short term - Inhalation

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SECTION 8: Exposure controls/p	ersonal protection
	734 mg/m³ <u>Effects</u> : Local
	<b>DNEL - General population - Short term - Inhalation</b> 734 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 734 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 734 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 1468 mg/m³ <u>Effects</u> : Local
	DNEL - Workers - Short term - Inhalation 1468 mg/m³ <u>Effects</u> : Systemic
hexamethylene-di-isocyanate	<b>DNEL - Workers - Long term - Inhalation</b> 0.035 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Short term - Inhalation</b> 0.07 mg/m³ <u>Effects</u> : Local
PNECs	
<b>Product/ingredient name</b> Hexamethylene diisocyanate, oligomers	<b>Result</b> Marine water 12.7 μg/l
	<b>Fresh water</b> 1270 μg/l
	<b>Sediment</b> 266700 mg/kg
	<b>Soil</b> 53200 mg/kg
	Sewage Treatment Plant 38.28 mg/kg
n-butyl acetate	<b>Soil</b> 0.09 mg/kg
	<b>Fresh water</b> 0.18 mg/l
	<b>Sewage Treatment Plant</b> 35.6 mg/l

Marine water 0.018 mg/l

Fresh water sediment 0.981 mg/kg

Marine water sediment

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	0.098 mg/kg
Reaction mass of ethylbenzene and xylene	Fresh water 0.327 mg/l
	<b>Marine water</b> 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
	<b>Soil</b> 2.31 mg/kg
ethyl acetate	Fresh water sediment 1.15 mg/kg
	<b>Fresh water</b> 0.24 mg/l
	<b>Marine water sediment</b> 0.115 mg/kg
	<b>Soil</b> 0.148 mg/kg
	<b>Sewage Treatment Plant</b> 650 mg/l
	<b>Marine water</b> 0.024 mg/l
nexamethylene-di-isocyanate	<b>Sewage Treatment Plant</b> 8.42 mg/l

#### 8.2 Exposure controls

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used.

Examination of lung fund Appropriate engineering controls	<ul> <li>etion should be carried out on a regular basis on persons spraying this mixture.</li> <li>Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Air-fed protective respiratory equipment must be worn by the spray operator, even when good ventilation is provided. In other operations, if local exhaust ventilation and good general extraction and good general extraction are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn. (See Occupational exposure controls.)</li> </ul>	
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	: Use safety eyewear designed to protect against splash of liquids.	
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# **SECTION 8: Exposure controls/personal protection**

## Skin protection

### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves	<ul> <li>Duration / breakthrough time: &lt;1 hour, Glove material: NBR, nitrile rubber, material thickness as splash protection: at least 0.2 mm, (EN374) Glove material: NBR, nitrile rubber Material thickness for short-term contact: at least 0.5 mm, (EN374)</li> </ul>
	The recommendation for the type or types of glove to use when handling this product is based on information from the following source:
	Expert judgment
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	<ul> <li>Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.</li> </ul>
Other skin protection	<ul> <li>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.</li> </ul>
Respiratory protection	: By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask.
	Under cool, dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application. If dry flatting is unavoidable, air-fed respiratory protective equipment should be used.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

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

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

#### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Clear.
Odour	: Not available.
Odour threshold	: Not available.
Melting point/freezing point	: Technically not possible to measure
Initial boiling point and boiling range	: 125 to 203°C (257 to 397.4°F)
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Lower: 1% Upper: 7.5%
	Not available.

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

Flash point	: Closed cup: 27°C (80.6°F)
Auto-ignition temperature	: 280°C (536°F)
Decomposition temperature	: Not applicable.
рН	: Not applicable.
Viscosity	: Dynamic (room temperature): 153 mPa⋅s Kinematic (room temperature): 150 mm²/s Kinematic (40°C): Not available.

Solubility(ies) :	
Media	Result
cold water	Very slightly soluble
Solubility in water : N	Not available.
Miscible with water : N	No.
Partition coefficient: n-octanol/ : N water	Not applicable.
Vapour pressure : (	0.69 kPa (5.2 mm Hg)
Relative density : 1	Not available.
Density : 1	1.02 g/cm <sup>3</sup>
Vapour density : N	Not available.
Explosive properties : 1	Not available.
Oxidising properties : N	Not available.
Weight volatiles : 4	42.4 % (w/w)
VOC content : 4	42.4 % (w/w) (2010/75/EU)

#### 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

Further information Not available.

9.2.2 Other safety characteristics		
Miscible with water	:	No.
Further information Not available.		

room temperature (=20°C)

SECTION 10: Stability and reactivity						
10.1 Reactivity	: The product reacts slowly with water, resulting in the production of carbon dioxide.					
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).					
10.3 Possibility of hazardous reactions	: In closed containers, pressure build-up could result in distortion, expansion and, in extreme cases, bursting of the container.					
10.4 Conditions to avoid	: In a fire, hazardous decomposition products may be produced.					
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	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.					
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# **SECTION 10: Stability and reactivity**

# **SECTION 11: Toxicological information**

1.1 Information on toxicological effects	
Acute toxicity	
<b>Product/ingredient name</b> Hexamethylene diisocyanate, oligomers	Result Rat - Inhalation - LC50 Dusts and mists 18500 mg/m³ [1 hours]
n-butyl acetate	<b>Rat - Oral - LD50</b> 10768 mg/kg <u>Toxic effects</u> : Behavioral - Somnolence (general depressed activity) Lung, Thorax, or Respiration - Other changes Liver Other changes
	<b>Rabbit - Dermal - LD50</b> >17600 mg/kg
	<b>Rat - Inhalation - LC50 Vapour</b> 21.1 mg/l [4 hours]
Reaction mass of ethylbenzene and xylene	<b>Rat - Oral - LD50</b> 3523 to 4000 mg/kg
	<b>Rabbit - Dermal - LD50</b> 121236 mg/kg
	Rat - Inhalation - LC50 Vapour 6350 to 6700 ppm [4 hours]
Hydrocarbons, C9, aromatics	<b>Rat - Female - Oral - LD50</b> 3492 mg/kg OECD 401
	<b>Rabbit - Dermal - LD50</b> >3160 mg/kg OECD 402
ethyl acetate	<b>Rat - Oral - LD50</b> 5620 mg/kg
	<b>Rabbit - Dermal - LD50</b> 20001 mg/kg
	<b>Rat - Inhalation - LC50 Vapour</b> 22.6 mg/l [4 hours]
hexamethylene-di-isocyanate	<b>Rat - Inhalation - LC50 Vapour</b> 124 mg/m³ [4 hours]
	<b>Rat - Inhalation - LC50 Dusts and mists</b> 462 mg/m <sup>3</sup> [4 hours] <u>Toxic effects</u> : Lung, Thorax, or Respiration - Changes in lu weight Metabolism (intermediary) - Other proteins

Conclusion/Summary [Product] : Not available.

#### Acute toxicity estimates

# **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)
mixture	N/A	7442.5	N/A	15.2	2.6
Hexamethylene diisocyanate, oligomers	N/A	N/A	N/A	11	1.5
n-butyl acetate	10768	N/A	N/A	21.1	N/A
Reaction mass of ethylbenzene and xylene	N/A	1100	N/A	11	N/A
Hydrocarbons, C9, aromatics	3492	N/A	N/A	N/A	N/A
ethyl acetate	5620	20001	N/A	22.6	N/A
hexamethylene-di-isocyanate	500	N/A	N/A	0.124	0.462

#### Skin corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

#### Serious eye damage/eye irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

#### **Respiratory corrosion/irritation**

Not available.

**Conclusion/Summary [Product]** : Not available.

## **Respiratory or skin sensitization**

<b>Product/ingredient name</b> Hexamethylene diisocyanate, oligom	ers	<b>Result</b> <b>Mouse - skin</b> OECD [Skin Sensitization: Local Lymph Node Assay] <u>Result</u> : Sensitising
Skin Conclusion/Summary [Product]	: Not available	9.
Respiratory Conclusion/Summary [Product]	: Not available	
<u>Germ cell mutagenicity</u> Not available.		
Conclusion/Summary [Product]	: Not available	
Carcinogenicity		

Not available.

**Conclusion/Summary [Product]** : Not available.

### **Reproductive toxicity**

# **SECTION 11: Toxicological information**

Not available.

## Conclusion/Summary [Product] : Not available.

Product/ingredient name		Result		
Hexamethylene diisocyanate, n-butyl acetate Reaction mass of ethylbenze Hydrocarbons, C9, aromatics	ne and xylene	STOT SE 3, H335 (Respiratory tract irritation) STOT SE 3, H336 (Narcotic effects) STOT SE 3, H335 (Respiratory tract irritation) STOT SE 3, H335 (Respiratory tract irritation) STOT SE 3, H336 (Narcotic effects)		
ethyl acetate hexamethylene-di-isocyanate	9	STOT SE 3, H336 (Narcotic effects) STOT SE 3, H335 (Respiratory tract irritation)		
Specific target organ toxicit	y (repeated exposure)			
Product/ingredient name		Result		
Reaction mass of ethylbenze	ne and xylene	STOT RE 2, H373		
Aspiration hazard				
Product/ingredient name		Result		
Reaction mass of ethylbenze Hydrocarbons, C9, aromatics	3	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1		
Information on likely routes	of exposure			
Not available.				
Potential acute health effect	<u>ts</u>			
Eye contact	: Causes serious ey	e irritation.		
Inhalation		Can cause central nervous system (CNS) depression. May or dizziness. May cause respiratory irritation.		
Skin contact	: Causes skin irritati	: Causes skin irritation. May cause an allergic skin reaction.		
Ingestion	: Can cause central nervous system (CNS) depression.			
	-	toxicological characteristics		
<u>Symptoms related to the ph</u> Eye contact	-	toxicological characteristics s may include the following:		
	<ul> <li>Adverse symptoms pain or irritation watering redness</li> <li>Adverse symptoms respiratory tract irri coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo</li> </ul>	s may include the following: s may include the following: itation		
Eye contact	<ul> <li>Adverse symptoms pain or irritation watering redness</li> <li>Adverse symptoms respiratory tract irri coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness</li> </ul>	s may include the following: s may include the following: itation		
Eye contact Inhalation	<ul> <li>Adverse symptoms pain or irritation watering redness</li> <li>Adverse symptoms respiratory tract irri coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness</li> <li>Adverse symptoms irritation</li> </ul>	s may include the following: s may include the following: itation		
Eye contact Inhalation Skin contact Ingestion	<ul> <li>Adverse symptoms pain or irritation watering redness</li> <li>Adverse symptoms respiratory tract irri coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness</li> <li>Adverse symptoms irritation redness</li> <li>No specific data.</li> </ul>	s may include the following: s may include the following: itation		
Eye contact Inhalation Skin contact Ingestion	<ul> <li>Adverse symptoms pain or irritation watering redness</li> <li>Adverse symptoms respiratory tract irri coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness</li> <li>Adverse symptoms irritation redness</li> <li>No specific data.</li> </ul>	a may include the following: tation a may include the following:		
Eye contact Inhalation Skin contact Ingestion <u>Delayed and immediate effe</u>	<ul> <li>Adverse symptoms pain or irritation watering redness</li> <li>Adverse symptoms respiratory tract irri coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness</li> <li>Adverse symptoms irritation redness</li> <li>No specific data.</li> </ul>	a may include the following: tation a may include the following:		
Eye contact Inhalation Skin contact Ingestion <u>Delayed and immediate effe</u> Short term exposure Potential immediate	<ul> <li>Adverse symptoms pain or irritation watering redness</li> <li>Adverse symptoms respiratory tract irri coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness</li> <li>Adverse symptoms irritation redness</li> <li>No specific data.</li> </ul>	a may include the following: tation a may include the following:		
Eye contact Inhalation Skin contact Ingestion <u>Delayed and immediate effe</u> Short term exposure Potential immediate effects	<ul> <li>Adverse symptoms pain or irritation watering redness</li> <li>Adverse symptoms respiratory tract irri coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness</li> <li>Adverse symptoms irritation redness</li> <li>No specific data.</li> <li>Adverse as well as chronic</li> <li>Not available.</li> </ul>	a may include the following: tation a may include the following:		

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary [Pro	oduct] : Not available.
General	: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### **Other information**

Not available.

# **SECTION 12: Ecological information**

12.1 Toxicity	
<b>Product/ingredient name</b> Hexamethylene diisocyanate, oligomers	<b>Result Acute - LC50</b> Fish - <i>danio rerio</i> >100 mg/l [96 hours]
	<b>Acute - EC50</b> Daphnia - <i>Daphnia magna</i> >100 mg/l [48 hours]
n-butyl acetate	<b>Acute - LC50 - Marine water</b> Fish - Inland silverside - <i>Menidia beryllina</i> 185 ppm [96 hours] <u>Effect</u> : Mortality
Reaction mass of ethylbenzene and xylene	<b>Acute - LC50</b> OECD 203 Fish - Trout - <i>Oncorhynchus mykiss</i> 2.6 mg/l [96 hours]
	<b>Acute - LC50</b> OECD 202 Daphnia - Daphnia - <i>Daphnia magna</i> 1 mg/l [24 hours]
	<b>Acute - EC50</b> OECD 201 Algae - Algae - <i>Selenastrum capricornutum</i> 2.2 mg/l [73 hours]
	<b>Chronic - NOEC</b> OECD 301F Micro-organism - Activated sludge - <i>Activated sludge</i> 16 mg/l [28 days]
Hydrocarbons, C9, aromatics	<b>Acute - LC50</b> OECD 203 Fish - Trout - <i>Oncorhynchus mykiss</i> 9.2 mg/l [96 hours]
ethyl acetate	<b>Acute - LC50 - Fresh water</b> Daphnia - Water flea - <i>Daphnia cucullata</i>

Date of issue/Date of revision

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758 Valueactivator

# **SECTION 12: Ecological information**

<u>Age</u>: 11 days 154 mg/l [48 hours] <u>Effect</u>: Mortality

Acute - LC50 - Fresh water Fish - Indian catfish - *Heteropneustes fossilis* <u>Size</u>: 14.16 cm; <u>Weight</u>: 25.54 g 212.5 mg/l [96 hours] <u>Effect</u>: Mortality

# Acute - EC50 - Fresh water

Algae - Green algae - *Selenastrum sp.* 2500 mg/l [96 hours] <u>Effect</u>: Population

### Chronic - NOEC - Fresh water

Fish - Fathead minnow - *Pimephales promelas* - Embryo <u>Age</u>: <24 hours 75.6 mg/l [32 days] <u>Effect</u>: Mortality

### Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna* <u>Age</u>: ≤24 hours 2.4 mg/l [21 days] <u>Effect</u>: Mortality

Conclusion/Summary [Product] : Not available.

### 12.2 Persistence and degradability

Product/ingredient name

Result

Hexamethylene diisocyanate, oligomers

Aerobic 1% [28 days] - Not readily

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hexamethylene diisocyanate, oligomers	-	-	Not readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Hexamethylene diisocyanate, oligomers	5.54	367.7	Low
n-butyl acetate	2.3	-	Low
Reaction mass of ethylbenzene and xylene	3.16	-	Low
ethyl acetate	0.68	30	Low
hexamethylene-di-isocyanate	0.02	57.63	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient	: Not available.
Mobility	: Not available.
Date of issue/Date of revision	: 16 May 2025 Date of previous issue

# **SECTION 12: Ecological information**

## 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
Hexamethylene diisocyanate, oligomers	No	No	No	No	No	No	No
n-butyl acetate	No	No	No	No	No	No	No
Reaction mass of ethylbenzene and xylene	No	No	No	Yes	No	No	No
Hydrocarbons, C9, aromatics	No	No	No	No	No	No	No
ethyl acetate	No	No	No	No	No	No	No
hexamethylene-di- isocyanate	No	No	No	No	No	No	No

12.6 Other adverse effects

: No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

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

#### 13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or 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 05 01*	waste isocyanates
<u>Packaging</u> Methods of disposal	: 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.
Type of packaging	Waste catalogue
	15 01 10* packaging containing residues of or contaminated by hazardous substances
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.

# **SECTION 14: Transport information**

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

14.2 UN proper PAI	ADR/RID I1263 INT RELATED ATERIAL	ADN UN1263 PAINT RELATED MATERIAL 3	IMDG UN1263 PAINT RELATED MATERIAL	IATA UN1263 PAINT RELATED MATERIAL
14.2 UN proper shipping namePAI MA14.3 Transport hazard class(es)314.4 Packing groupIII14.5No.	I1263 INT RELATED	UN1263 PAINT RELATED MATERIAL	UN1263 PAINT RELATED	UN1263 PAINT RELATED
14.2 UN proper shipping namePAI MA14.3 Transport hazard class(es)314.4 Packing groupIII14.5No.	INT RELATED	PAINT RELATED MATERIAL	PAINT RELATED	PAINT RELATED
shipping nameMA14.3 Transport hazard class(es)314.4 Packing groupIII14.5No.		MATERIAL		
hazard class(es)14.4 Packing groupIII14.5No.		3		
group 14.5 No.	3		3	3
-		111	111	111
hazards		Yes.	No.	No.
Additional information         ADR/RID       : Tunnel code (D/E)         ADN       : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.         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.				
I4.7 Transport in bulk : Not available. according to IMO nstruments				

# 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.

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						
N	National regulations						
	Product/ingredient name	List name	Name on list	Classification	Notes		

# **SECTION 15: Regulatory information**

## International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

## **Montreal Protocol**

Not listed.

## Stockholm Convention on Persistent Organic Pollutants

Not listed.

15.2 Chemical safety	This product contains substances for which Chemical Safety Assessments are still
assessment	required.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> </ul>
acronyma	ADR = The European Agreement concerning the International Carriage of
	Dangerous Goods by Road
	ATE = Acute Toxicity Estimate
	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
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods
	IMO = International Maritime Organization
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RID = The Regulations concerning the International Carriage of Dangerous Goods
	by Rail
	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
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements

H225	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.

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# **SECTION 16: Other information**

H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
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
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of issue/ Date of	: 5/16/2025
revision	
Version	: 1.59

Date of previous issue : 5/9/2025

#### Notice to reader

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**SECTION 16: Other information**