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## SAFETY DATA SHEET

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

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

#### 1.1 Product identifier

**Product identifier** : UP2328  
**Product name** : 2K STANDARD HARDENER  
**Product type** : Liquid.  
**Other means of identification** : Not available.  
**Date of issue/ Date of revision** : 19 February 2026  
**Version** : 1  
**Date of previous issue** : No previous validation

#### 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

U-POL NETHERLANDS B.V,  
DE GEER 14,  
4004LT TIEL,  
NETHERLANDS  
+31 20 240 2216  
sds-competence@axalta.com

**e-mail address of person responsible for this SDS** : sds-competence@axalta.com

#### National contact

U-POL LTD,  
DENINGTON ROAD,  
WELLINGBOROUGH,  
NN8 2QH  
+44 (0) 1933 230310  
sds-competence@axalta.com

#### 1.4 Emergency telephone number

##### National advisory body/Poison Centre

**Telephone number** : 010-456 6700 (9:00-17:00);112

##### Supplier

+(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Flam. Liq. 2, H225

Acute Tox. 4, H332

Eye Irrit. 2, H319

Skin Sens. 1, H317

Carc. 2, H351

STOT SE 3, H335

STOT SE 3, H336

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

**Ingredients of unknown toxicity** : 4 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

**Ingredients of unknown ecotoxicity** : Contains 4% of components with unknown hazards to the aquatic environment

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

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

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Danger

**Contains** : Hexamethylene diisocyanate, oligomers  
4-methylpentan-2-one  
p-toluenesulphonyl isocyanate  
hexamethylene-di-isocyanate

**Hazard statements** : H225 - Highly flammable liquid and vapour.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H332 - Harmful if inhaled.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H351 - Suspected of causing cancer.

#### Precautionary statements

**Prevention** : P201 - Obtain special instructions before use.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 - Avoid breathing vapour.

**Response** : P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.  
P302 + P352 - IF ON SKIN: Wash with plenty of water.  
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** : EUH066 - Repeated exposure may cause skin dryness or cracking.  
EUH204 - Contains isocyanates. May produce an allergic reaction.

## SECTION 2: Hazards identification

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

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Hexamethylene diisocyanate, oligomers	REACH #: 01-2119485796-17 EC: 931-274-8 CAS: 28182-81-2	≥25 - ≤50	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Inhalation (vapours)] = 11 mg/l	[1]
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≥25 - ≤50	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
pentyl propionate	EC: 210-852-7 CAS: 624-54-4	≤5	Flam. Liq. 3, H226 Eye Irrit. 2, H319	-	[1]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≤3	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
p-toluenesulphonyl isocyanate	REACH #: 01-2119980050-47 EC: 223-810-8 CAS: 4083-64-1	≤0.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335	-	[1]
hexamethylene-diisocyanate	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	ATE [Oral] = 500 mg/kg ATE [Inhalation (vapours)] = 0.124 mg/l	[1] [2]

## SECTION 3: Composition/information on ingredients

			Skin Sens. 1, H317 STOT SE 3, H335  <b>See Section 16 for          the full text of the H          statements declared          above.</b>	Resp. Sens. 1, H334: C ≥ 0.5% Skin Sens. 1, H317: C ≥ 0.5%	
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There are no 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.

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

[2] Substance with a workplace exposure limit

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- 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

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

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

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

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

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

## SECTION 4: First aid measures

Repeated or prolonged contact with irritants may cause dermatitis.

Contains Hexamethylene diisocyanate, oligomers, p-toluenesulphonyl isocyanate, hexamethylene-di-isocyanate. May produce an allergic reaction.

### 4.3 Indication of any immediate medical attention and special treatment needed

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

See toxicological information (Section 11)

## 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, protective 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.

## SECTION 6: Accidental release measures

- 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 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).

**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** : 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.  $\text{CO}_2$  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

## SECTION 7: Handling and storage

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

#### Danger criteria

Category	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

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

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Identifiers	Exposure limit values
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	<b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> TWA 8 hours: 20 ppm. TWA 8 hours: 83 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 200 mg/m <sup>3</sup> . <b>EU OEL (Europe, 1/2022)</b> TWA 8 hours: 20 ppm. TWA 8 hours: 83 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 208 mg/m <sup>3</sup> .
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6	<b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> . <b>EU OEL (Europe, 1/2022)</b> Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> .
n-butyl acetate	REACH #: 01-2119485493-29	<b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> [butyl acetate]

## SECTION 8: Exposure controls/personal protection

hexamethylene-di-isocyanate	EC: 204-658-1 CAS: 123-86-4  REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1	TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m <sup>3</sup> . <b>EU OEL (Europe, 1/2022)</b> STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m <sup>3</sup> . TWA 8 hours: 241 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. <b>Work environment authority Regulation 2018:1 (Sweden, 11/2022) Sensitiser.</b> TWA 8 hours: 0.002 ppm. TWA 8 hours: 0.02 mg/m <sup>3</sup> . STEL 15 minutes: 0.005 ppm. STEL 15 minutes: 0.03 mg/m <sup>3</sup> . <b>EU OEL (Europe, 3/2024) [diisocyanates]</b> Absorbed through skin , Skin sensitiser , Inhalation sensitiser. STEL 15 minutes: 20 µg/m <sup>3</sup> (as isocyanates functional groups of the diisocyanate compounds.). TWA 8 hours: 10 µg/m <sup>3</sup> (as isocyanates functional groups of the diisocyanate compounds.).
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### Biological exposure indices

No exposure indices known.

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

#### Product/ingredient name

Hexamethylene diisocyanate, oligomers

#### Result

**DNEL - Workers - Long term - Inhalation**

0.5 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Short term - Inhalation**

1 mg/m<sup>3</sup>

Effects: Local

4-methylpentan-2-one

**DNEL - Workers - Long term - Dermal**

11.8 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

83 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Long term - Inhalation**

83 mg/m<sup>3</sup>

Effects: Systemic

## SECTION 8: Exposure controls/personal protection

	<p><b>DNEL - Workers - Short term - Inhalation</b>            208 mg/m<sup>3</sup>  <u>Effects:</u> Local</p>
	<p><b>DNEL - Workers - Short term - Inhalation</b>            208 mg/m<sup>3</sup>  <u>Effects:</u> Systemic</p>
	<p><b>DNEL - General population - Long term - Oral</b>            4.2 mg/kg bw/day  <u>Effects:</u> Systemic</p>
2-methoxy-1-methylethyl acetate	<p><b>DNEL - Workers - Long term - Dermal</b>            796 mg/kg bw/day  <u>Effects:</u> Systemic</p> <p><b>DNEL - Workers - Long term - Inhalation</b>            275 mg/m<sup>3</sup>  <u>Effects:</u> Systemic</p> <p><b>DNEL - Workers - Short term - Inhalation</b>            550 mg/m<sup>3</sup>  <u>Effects:</u> Local</p> <p><b>DNEL - General population - Long term - Inhalation</b>            33 mg/m<sup>3</sup>  <u>Effects:</u> Systemic</p> <p><b>DNEL - General population - Long term - Inhalation</b>            33 mg/m<sup>3</sup>  <u>Effects:</u> Local</p> <p><b>DNEL - General population - Long term - Dermal</b>            320 mg/kg bw/day  <u>Effects:</u> Systemic</p> <p><b>DNEL - General population - Long term - Oral</b>            36 mg/kg bw/day  <u>Effects:</u> Systemic</p> <p><b>DNEL - General population - Short term - Oral</b>            500 mg/kg bw/day  <u>Effects:</u> Systemic</p>
pentyl propionate	<p><b>DNEL - General population - Long term - Inhalation</b>            5 mg/m<sup>3</sup>  <u>Effects:</u> Local</p> <p><b>DNEL - General population - Short term - Inhalation</b>            17.1 mg/m<sup>3</sup>  <u>Effects:</u> Local</p> <p><b>DNEL - Workers - Long term - Inhalation</b>            20.2 mg/m<sup>3</sup>  <u>Effects:</u> Local</p>

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

n-butyl acetate

**DNEL - Workers - Short term - Inhalation**68.6 mg/m<sup>3</sup>Effects: Local**DNEL - Workers - Short term - Dermal**

11 mg/kg bw/day

Effects: Systemic**DNEL - General population - Long term - Oral**

2 mg/kg bw/day

Effects: Systemic**DNEL - General population - Short term - Oral**

2 mg/kg bw/day

Effects: Systemic**DNEL - General population - Long term - Dermal**

3.4 mg/kg bw/day

Effects: Systemic**DNEL - General population - Short term - Dermal**

6 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Short term - Dermal**

11 mg/kg bw/day

Effects: Systemic**DNEL - General population - Long term - Inhalation**12 mg/m<sup>3</sup>Effects: 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 - General population - Short term - Inhalation**300 mg/m<sup>3</sup>Effects: Systemic**DNEL - Workers - Long term - Inhalation**300 mg/m<sup>3</sup>Effects: Local**DNEL - Workers - Short term - Inhalation**600 mg/m<sup>3</sup>Effects: Local**DNEL - Workers - Short term - Inhalation**600 mg/m<sup>3</sup>Effects: Systemic**DNEL - Workers - Long term - Inhalation**

## SECTION 8: Exposure controls/personal protection

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

hexamethylene-di-isocyanate

**DNEL - Workers - Long term - Inhalation**  
 0.035 mg/m<sup>3</sup>  
Effects: Local

**DNEL - Workers - Short term - Inhalation**  
 0.07 mg/m<sup>3</sup>  
Effects: Local

### PNECs

**Product/ingredient name**

Hexamethylene diisocyanate, oligomers

**Result**

**Marine water**

12.7 µg/l

**Fresh water**

1270 µg/l

**Sediment**

266700 mg/kg

**Soil**

53200 mg/kg

**Sewage Treatment Plant**

38.28 mg/kg

4-methylpentan-2-one

**Marine water**

0.06 mg/l

**Fresh water**

0.6 mg/l

**Sediment**

8.27 mg/kg

2-methoxy-1-methylethyl acetate

**Fresh water**

0.635 mg/l

**Marine water**

0.0635 mg/l

**Sewage Treatment Plant**

100 mg/l

**Fresh water sediment**

3.29 mg/kg dwt

**Marine water sediment**

0.329 mg/kg dwt

**Soil**

0.29 mg/kg dwt

n-butyl acetate

**Soil**

0.09 mg/kg

## SECTION 8: Exposure controls/personal protection

### Fresh water

0.18 mg/l

### Sewage Treatment Plant

35.6 mg/l

### Marine water

0.018 mg/l

### Fresh water sediment

0.981 mg/kg

### Marine water sediment

0.098 mg/kg

hexamethylene-di-isocyanate

### Sewage Treatment Plant

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 function should be carried out on a regular basis on persons spraying this mixture.**

**Appropriate engineering controls** : 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 are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn. (See Occupational exposure controls.)

### Individual protection measures

**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.

### 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.

## SECTION 8: Exposure controls/personal protection

<b>Gloves</b>	: Duration / breakthrough time: <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) 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.
<b>Body protection</b>	: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.
<b>Other skin protection</b>	: 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.
<b>Respiratory protection</b>	: 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 flattening is unavoidable, air-fed respiratory protective equipment should be used.
<b>Environmental exposure controls</b>	: 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

#### Appearance

<b>Physical state</b>	: Liquid.
<b>Colour</b>	: Clear.
<b>Odour</b>	: Not available.
<b>Odour threshold</b>	: Not available.
<b>Melting point/freezing point</b>	: Technically not possible to measure
<b>Boiling point or initial boiling point and boiling range</b>	: 114 to 203°C
<b>Flammability</b>	: Not available.
<b>Lower and upper explosion limit</b>	: Lower: 1.2% Upper: 8%
<b>Lower and upper explosive (flammable) limits</b>	: Not available.
<b>Flash point</b>	: Closed cup: 18.4°C
<b>Auto-ignition temperature</b>	: 333°C
<b>Decomposition temperature</b>	: Not applicable.
<b>pH</b>	: Not applicable.
<b>Justification</b>	: Not available.

## SECTION 9: Physical and chemical properties

**Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C): Not available.

**Solubility** :

Media	Result
cold water	Soluble

**Vapour pressure** 0.87 kPa (6.5 mm Hg)

**Density** : 0.951 g/cm<sup>3</sup>

**Weight volatiles** : 57.8 % (w/w)

**VOC content** : 57.8 % (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** : Yes.

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.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

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

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

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

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

Contains Hexamethylene diisocyanate, oligomers, p-toluenesulphonyl isocyanate, hexamethylene-di-isocyanate. May produce an allergic reaction.

#### **Acute toxicity**

<b>Product/ingredient name</b>	<b>Result</b>
Hexamethylene diisocyanate, oligomers	<b>Rat - Inhalation - LC50 Dusts and mists</b> 18500 mg/m <sup>3</sup> [1 hours]
4-methylpentan-2-one	<b>Rat - Oral - LD50</b> 2080 mg/kg
-	<b>Rat - Inhalation - LC50 Vapour</b> 16.4 mg/l [4 hours]
pentyl propionate	<b>Rat - Oral - LD50</b> >14 g/kg <u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Liver - Other changes
-	<b>Rabbit - Dermal - LD50</b> >14 g/kg <u>Toxic effects:</u> Gastrointestinal - Hypermotility, diarrhea Liver - Other changes Musculoskeletal - Other changes
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]

## SECTION 11: Toxicological information

hexamethylene-di-isocyanate

**Rat - Inhalation - LC50 Vapour**124 mg/m<sup>3</sup> [4 hours]

-

**Rat - Inhalation - LC50 Dusts and mists**462 mg/m<sup>3</sup> [4 hours]Toxic effects: Lung, Thorax, or Respiration - Changes in lung weight Metabolism (intermediary) - Other proteins**Conclusion/Summary [Product]** : Not available.

### Acute toxicity estimates

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	N/A	N/A	14.0	3.6
Hexamethylene diisocyanate, oligomers	N/A	N/A	N/A	11	1.5
4-methylpentan-2-one	2080	N/A	N/A	11	N/A
n-butyl acetate	10768	N/A	N/A	21.1	N/A
hexamethylene-di-isocyanate	500	N/A	N/A	0.124	0.462

### Skin corrosion/irritation

**Product/ingredient name**

4-methylpentan-2-one

**Result****Rabbit - Skin - Mild irritant**Duration of treatment/exposure: 24 hoursAmount/concentration applied: 500 mg**Conclusion/Summary [Product]** : Not available.

### Serious eye damage/eye irritation

**Product/ingredient name**

4-methylpentan-2-one

**Result****Rabbit - Eyes - Moderate irritant**Duration of treatment/exposure: 24 hoursAmount/concentration applied: 100 uL

-

**Rabbit - Eyes - Severe irritant**Amount/concentration applied: 40 mg

pentyl propionate

**Rabbit - Eyes - Mild irritant**Amount/concentration applied: 100 mg**Conclusion/Summary [Product]** : Not available.

### Respiratory corrosion/irritation

Not available.

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

### Respiratory or skin sensitization

**Product/ingredient name****Result**

## SECTION 11: Toxicological information

Hexamethylene diisocyanate, oligomers

### Mouse - skin

OECD [Skin Sensitization: Local Lymph Node Assay]  
Result: Sensitising

### Skin

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

### Respiratory

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

### Germ cell mutagenicity

Not available.

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

### Carcinogenicity

Not available.

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

### Reproductive toxicity

Not available.

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

### Specific target organ toxicity (single exposure)

#### Product/ingredient name

Hexamethylene diisocyanate, oligomers  
 4-methylpentan-2-one  
 2-methoxy-1-methylethyl acetate  
 n-butyl acetate  
 p-toluenesulphonyl isocyanate  
 hexamethylene-di-isocyanate

#### Result

STOT SE 3, H335 (Respiratory tract irritation)  
 STOT SE 3, H336 (Narcotic effects)  
 STOT SE 3, H336 (Narcotic effects)  
 STOT SE 3, H336 (Narcotic effects)  
 STOT SE 3, H335 (Respiratory tract irritation)  
 STOT SE 3, H335 (Respiratory tract irritation)

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

Not available.

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.

## SECTION 11: Toxicological information

**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

**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** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : 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** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

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

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment.

#### Product/ingredient name

Hexamethylene diisocyanate, oligomers

#### Result

##### Acute - LC50

Fish - *danio rerio*  
>100 mg/l [96 hours]

-

##### Acute - EC50

Daphnia - *Daphnia magna*  
>100 mg/l [48 hours]

4-methylpentan-2-one

##### Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*  
Age: 29 days; Size: 21 mm; Weight: 0.141 g  
505 mg/l [96 hours]  
Effect: Mortality

-

##### Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*  
78 mg/l [21 days]  
Effect: Behavior

-

##### Chronic - NOEC - Fresh water

Fish - Fathead minnow - *Pimephales promelas* - Embryo  
Age: <24 hours  
168 mg/l [33 days]  
Effect: Mortality

n-butyl acetate

##### Acute - LC50 - Marine water

Fish - Inland silverside - *Menidia beryllina*  
185 ppm [96 hours]  
Effect: Mortality

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

### 12.2 Persistence and degradability

#### Product/ingredient name

Hexamethylene diisocyanate, oligomers

#### Result

##### 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

## SECTION 12: Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Hexamethylene diisocyanate, oligomers	5.54	367.7	Low
4-methylpentan-2-one	1.9	-	Low
n-butyl acetate	2.3	-	Low
hexamethylene-di-isocyanate	0.02	57.63	Low

### 12.4 Mobility in soil

#### Soil/water partition coefficient

Product/ingredient name	logK <sub>oc</sub>	K <sub>oc</sub>
4-methylpentan-2-one	1.6	40.9047
pentyl propionate	2	110.738
n-butyl acetate	1.5	33.2139
hexamethylene-di-isocyanate	1.4	23.8009

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
Hexamethylene diisocyanate, oligomers	No	N/A	N/A	No	N/A	N/A	N/A
4-methylpentan-2-one	No	N/A	Yes	No	N/A	N/A	Yes
2-methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
pentyl propionate	No	N/A	Yes	No	No	N/A	No
n-butyl acetate	No	N/A	Yes	No	N/A	N/A	Yes
p-toluenesulphonyl isocyanate	No	No	No	No	No	No	No
hexamethylene-di-isocyanate	No	N/A	Yes	No	N/A	N/A	Yes

**Mobility** : Not available.

**Conclusion/Summary** : The product does not meet the criteria to be considered as a PMT or vPvM.

### 12.5 Results of PBT and vPvB assessment

#### Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Hexamethylene diisocyanate, oligomers	No	N/A	No	No	No	N/A	No
4-methylpentan-2-one	No	N/A	N/A	No	N/A	N/A	N/A
2-methoxy-1-methylethyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
pentyl propionate	No	N/A	N/A	No	N/A	N/A	N/A
n-butyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
p-toluenesulphonyl isocyanate	No	N/A	N/A	No	N/A	N/A	N/A
hexamethylene-di-isocyanate	No	N/A	No	No	No	N/A	No

#### Regulation (EC) No. 1272/2008 [CLP]

## SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Hexamethylene diisocyanate, oligomers	No	N/A	No	No	No	N/A	No
4-methylpentan-2-one	No	N/A	N/A	No	N/A	N/A	N/A
2-methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
pentyl propionate	No	N/A	N/A	No	N/A	N/A	N/A
n-butyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
p-toluenesulphonyl isocyanate	No	No	No	No	No	No	No
hexamethylene-di-isocyanate	No	N/A	No	No	No	N/A	No

**Conclusion/Summary** : The product does not meet the criteria to be considered as a PBT or vPvB.  
**Regulation (EC) No. 1272/2008 [CLP]**

### 12.6 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 12.7 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** : The classification of the product may meet the criteria for a hazardous waste.

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

#### Packaging

**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.





## SECTION 13: Disposal considerations

**Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Type of packaging	European waste catalogue (EWC)
CEPE Guidelines	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

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	3 	3 	3 	3 
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	No.	No.	No.

### Additional information

**ADR/RID** : **Special provisions** 640 (C)  
**Tunnel code** (D/E)

**ADN** : **Special provisions** 640 (C)

**Marine pollutant** : Not available.

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

**14.7 Maritime transport in bulk according to IMO instruments** : Not applicable.

## SECTION 14: Transport information

The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment information.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

##### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
mixture	≥90	3
hexamethylene-di-isocyanate	<0.1	74

**Labelling** : Not applicable.

#### Other EU regulations

**Explosive precursors** : Not applicable.

#### Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

#### National regulations

**Industrial use** : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

**Flammable liquid class (SRVFS 2005:10)** : 1

**15.2 Chemical safety assessment** : No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

**CEPE code** : 5

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
B = Bioaccumulative  
BCF = Bioconcentration Factor  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

## SECTION 16: Other information

1272/2008]  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 IATA = International Air Transport Association  
 IMDG = International Maritime Dangerous Goods  
 IMO = International Maritime Organization  
 M = Mobile  
 N/A = Not available  
 P = Persistent  
 PBT = Persistent, Bioaccumulative and Toxic  
 PMT = Persistent, Mobile 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  
 T = Toxic  
 vB = Very Bioaccumulative  
 vM = Very Mobile  
 vP = Very Persistent  
 vPvB = Very Persistent and Very Bioaccumulative  
 vPvM = Very Persistent and Very Mobile

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT SE 3, H336	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
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.
H351	Suspected of causing cancer.
EUH066	Repeated exposure may cause skin dryness or cracking.

### Full text of classifications [CLP/GHS]

## SECTION 16: Other information

Acute Tox. 1	ACUTE TOXICITY - Category 1
Acute Tox. 4	ACUTE TOXICITY - Category 4
Carc. 2	CARCINOGENICITY - Category 2
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 SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

**Date of issue/ Date of revision** : 19 February 2026

**Version** : 1

**Date of previous issue** : No previous validation

### Notice to reader

**This product is intended for industrial use only.**

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