

# 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** : REP/5LK Hardener  
**Product name** : Hardener for REP/5LK Kit  
**Product type** : Liquid.  
**Other means of identification** : 1250034083  
**Date of issue/ Date of revision** : 19 June 2025  
**Version** : 1.06  
**Date of previous issue** : 11 March 2023

### 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 Limited  
 Denington Road  
 Wellingborough, Northamptonshire, NN8 2QH  
 +44 (0) 1933 230310  
 technicalsupport@u-pol.com  
**e-mail address of person responsible for this SDS** : sds-competence@axalta.com

U-POL Netherlands  
 B.V. Hoorgoorddreef 15  
 Amsterdam, Netherlands 1101BA  
 +31 20 240 2216  
 technicalsupport@u-pol.com

### 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  
 Skin Irrit. 2, H315  
 Eye Irrit. 2, H319  
 STOT SE 3, H335  
 STOT RE 2, H373  
 Aquatic Chronic 3, H412

## SECTION 2: Hazards identification

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

**Ingredients of unknown toxicity** : 8.5 percent of the mixture consists of component(s) of unknown acute oral toxicity  
8.5 percent of the mixture consists of component(s) of unknown acute dermal toxicity  
8.5 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

**Ingredients of unknown ecotoxicity** : Contains 8.5% 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** : Warning

**Contains** : Reaction mass of ethylbenzene and xylene

**Hazard statements** : H226 - Flammable liquid and vapour.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H412 - Harmful to aquatic life with long lasting effects.

### Precautionary statements

**Prevention** : P280 - Wear protective gloves. Wear eye or face protection.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 - Avoid release to the environment.  
P260 - Do not breathe vapour.  
P264 - Wash hands thoroughly after handling.

**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** : EUH208 - Contains Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde, methyl methacrylate, N-BUTYL METHACRYLATE and 2-hydroxyethyl acrylate. 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.

### 2.3 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	Type
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119539452-40 EC: 905-588-0	≥25 - ≤50	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]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≥10 - ≤17	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
isopentyl acetate	REACH #: 01-2119548408-32 EC: 204-662-3 CAS: 123-92-2 Index: 607-130-00-2	≤2.1	Flam. Liq. 3, H226 EUH066	[1] [2]
Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde	REACH #: 01-2120771590-53 EC: 279-510-2 CAS: 80584-99-2	<1	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]
methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6	<1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
N-BUTYL METHACRYLATE	REACH #: 01-2119486394-28 EC: 202-615-1 CAS: 97-88-1	≤0.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT SE 3, H335	[1]
2-hydroxyethyl acrylate	REACH #: 01-2119459345-34 EC: 212-454-9 CAS: 818-61-1 Index: 607-072-00-8	≤0.12	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[1]

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.

Type

[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

- |                                   |   |
|-----------------------------------|---|
| <b>Eye contact</b>                | : 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.   |
| <b>Inhalation</b>                 | : 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. |
| <b>Skin contact</b>               | : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.  |
| <b>Ingestion</b>                  | : 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 following exposure or if feeling unwell. 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.  |
| <b>Protection of first-aiders</b> | : 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.  |

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

#### Over-exposure signs/symptoms

- |                     |  |
|---------------------|--|
| <b>Eye contact</b>  | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
| <b>Inhalation</b>   | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing  |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>irritation<br>redness                     |
| <b>Ingestion</b>    | : No specific data.  |

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

- |                            |   |
|----------------------------|---|
| <b>Notes to physician</b>  | : 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. |
| <b>Specific treatments</b> | : No specific treatment.  |

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

**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.

### 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.

### 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). Preferably clean with a detergent. Avoid using solvents.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

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

### 7.1 Precautions for safe handling

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.

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).

**SECTION 7: Handling and storage**

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 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****8.1 Control parameters****Occupational exposure limits**

Product/ingredient name	Exposure limit values
n-butyl acetate	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> 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.
isopentyl acetate	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020) [pentyl acetates (all isomers)]</b> STEL 15 minutes: 541 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. TWA 8 hours: 50 ppm. TWA 8 hours: 270 mg/m <sup>3</sup> .
methyl methacrylate	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> STEL 15 minutes: 416 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. TWA 8 hours: 208 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.

**Biological exposure indices**

No exposure indices known.

SECTION 8: Exposure controls/personal protection

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS 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	Result
Reaction mass of ethylbenzene and xylene	<b>DNEL - Workers - Long term - Dermal</b> 212 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 221 mg/m <sup>3</sup> <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 - 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
	<b>DNEL - General population - Long term - Inhalation</b> 35.7 mg/m <sup>3</sup> <u>Effects</u> : Local
n-butyl acetate	<b>DNEL - General population - Short term - Inhalation</b> 300 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - General population - Short term - Inhalation</b> 300 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 300 mg/m <sup>3</sup> <u>Effects</u> : Local

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SECTION 8: Exposure controls/personal protection

	<p><b>DNEL - Workers - Short term - Inhalation</b> 600 mg/m<sup>3</sup> <u>Effects</u>: Local</p> <p><b>DNEL - Workers - Short term - Inhalation</b> 600 mg/m<sup>3</sup> <u>Effects</u>: Systemic</p> <p><b>DNEL - Workers - Long term - Inhalation</b> 300 mg/m<sup>3</sup> <u>Effects</u>: Systemic</p>
isopentyl acetate	<p><b>DNEL - General population - Long term - Oral</b> 1.47 mg/kg bw/day <u>Effects</u>: Systemic</p> <p><b>DNEL - General population - Long term - Dermal</b> 1.47 mg/kg bw/day <u>Effects</u>: Systemic</p> <p><b>DNEL - Workers - Long term - Dermal</b> 2.95 mg/kg bw/day <u>Effects</u>: Systemic</p> <p><b>DNEL - General population - Long term - Inhalation</b> 5.1 mg/m<sup>3</sup> <u>Effects</u>: Systemic</p> <p><b>DNEL - Workers - Long term - Inhalation</b> 20.8 mg/m<sup>3</sup> <u>Effects</u>: Systemic</p>
Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde	<p><b>DNEL - Workers - Long term - Dermal</b> 0.467 mg/kg bw/day <u>Effects</u>: Systemic</p> <p><b>DNEL - Workers - Long term - Inhalation</b> 1.64 mg/m<sup>3</sup> <u>Effects</u>: Systemic</p>
methyl methacrylate	<p><b>DNEL - General population - Short term - Dermal</b> 1.5 mg/cm<sup>2</sup> <u>Effects</u>: Local</p> <p><b>DNEL - General population - Long term - Dermal</b> 1.5 mg/cm<sup>2</sup> <u>Effects</u>: Local</p> <p><b>DNEL - Workers - Short term - Dermal</b> 1.5 mg/cm<sup>2</sup> <u>Effects</u>: Local</p> <p><b>DNEL - Workers - Long term - Dermal</b> 1.5 mg/cm<sup>2</sup> <u>Effects</u>: Local</p> <p><b>DNEL - General population - Long term - Oral</b> 8.2 mg/kg bw/day <u>Effects</u>: Systemic</p> <p><b>DNEL - General population - Long term - Dermal</b> 8.2 mg/kg bw/day <u>Effects</u>: Systemic</p>



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SECTION 8: Exposure controls/personal protection

	<b>DNEL - Workers - Long term - Dermal</b> 13.67 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 74.3 mg/m³ <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 104 mg/m³ <u>Effects</u> : Local
	<b>DNEL - General population - Short term - Inhalation</b> 208 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 208 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 348.4 mg/m³ <u>Effects</u> : Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 416 mg/m³ <u>Effects</u> : Local
N-BUTYL METHACRYLATE	<b>DNEL - General population - Long term - Dermal</b> 3 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 5 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 66.5 mg/m³ <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 366.4 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 409 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 415.9 mg/m³ <u>Effects</u> : Systemic
2-hydroxyethyl acrylate	<b>DNEL - Workers - Long term - Inhalation</b> 2.4 mg/m³ <u>Effects</u> : Local

PNECs

Product/ingredient name	Result
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Hardener for REP/5LK Kit

SECTION 8: Exposure controls/personal protection

Reaction mass of ethylbenzene and xylene	<b>Fresh water</b> 0.327 mg/l
	<b>Marine water</b> 0.327 mg/l
	<b>Sewage Treatment Plant</b> 6.58 mg/l
	<b>Fresh water sediment</b> 12.46 mg/kg dwt
	<b>Marine water sediment</b> 12.46 mg/kg dwt
n-butyl acetate	<b>Soil</b> 2.31 mg/kg
	<b>Soil</b> 0.09 mg/kg
	<b>Fresh water</b> 0.18 mg/l
	<b>Sewage Treatment Plant</b> 35.6 mg/l
	<b>Marine water</b> 0.018 mg/l
isopentyl acetate	<b>Fresh water sediment</b> 0.981 mg/kg
	<b>Marine water sediment</b> 0.098 mg/kg
	<b>Fresh water</b> 0.011 mg/l
	<b>Marine water</b> 0.001 mg/l
	<b>Fresh water sediment</b> 0.335 mg/kg
methyl methacrylate	<b>Marine water sediment</b> 0.034 mg/kg
	<b>Sewage Treatment Plant</b> 30 mg/l
	<b>Soil</b> 0.06 mg/kg dwt
	<b>Fresh water</b> 0.94 mg/l
	<b>Fresh water sediment</b> 10.2 mg/kg dwt
	<b>Marine water</b> 0.094 mg/l
	<b>Marine water sediment</b>

## SECTION 8: Exposure controls/personal protection

1.02 mg/kg dwt

### Soil

1.48 mg/kg dwt

### Sewage Treatment Plant

10 mg/l

## 8.2 Exposure controls

- Appropriate engineering controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

### 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. 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.

- Gloves** : 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.

- Body protection** : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

- Respiratory protection** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flattening should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

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

**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****Appearance**

**Physical state** : Liquid.  
**Colour** : Red.  
**Odour** : Not available.  
**Odour threshold** : Not available.  
**Melting point/freezing point** : Technically not possible to measure  
**Initial boiling point and boiling range** : 125 to 142°C (257 to 287.6°F)  
**Flammability (solid, gas)** : Not available.  
**Upper/lower flammability or explosive limits** : Lower: 1%  
Upper: 7.5%  
Not available.  
  
**Flash point** : Closed cup: 24.83°C (76.7°F)  
**Auto-ignition temperature** : 379°C (714.2°F)  
**Decomposition temperature** : Not applicable.  
**pH** : Not applicable.  
**Viscosity** : Dynamic (room temperature): >122 mPa·s  
Kinematic (room temperature): >126 mm²/s  
Kinematic (40°C): Not available.  
  
**Solubility(ies)** :

Media	Result
cold water	Very slightly soluble

**Solubility in water** : Not available.  
**Miscible with water** : No.  
**Partition coefficient: n-octanol/ water** : Not applicable.  
**Vapour pressure** : 0.68 kPa (5.1 mm Hg)  
**Relative density** : Not available.  
**Density** : 0.965 g/cm³  
**Vapour density** : Not available.  
**Explosive properties** : Not available.  
**Oxidising properties** : Not available.  
**Weight volatiles** : 63.4 % (w/w)  
**VOC content** : 63 % (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.

**SECTION 9: Physical and chemical properties**

room temperature (=20°C)

**SECTION 10: Stability and reactivity**

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.
- 10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
- 10.6 Hazardous decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Product/ingredient name**

Reaction mass of ethylbenzene and xylene

**Result****Rat - Oral - LD50**

3523 to 4000 mg/kg

**Rabbit - Dermal - LD50**

121236 mg/kg

**Rat - Inhalation - LC50 Vapour**

6350 to 6700 ppm [4 hours]

n-butyl acetate

**Rat - Oral - LD50**

10768 mg/kg

**Toxic effects:** Behavioral - Somnolence (general depressed activity) Lung, Thorax, or Respiration - Other changes Liver - Other changes

**Rabbit - Dermal - LD50**

&gt;17600 mg/kg

**Rat - Inhalation - LC50 Vapour**

21.1 mg/l [4 hours]

isopentyl acetate

**Rat - Oral - LD50**

16600 mg/kg

**Rabbit - Dermal - LD50**

&gt;5 g/kg

methyl methacrylate

**Rat - Oral - LD50**

7872 mg/kg

**Toxic effects:** Behavioral - Muscle weakness Behavioral - Coma Lung, Thorax, or Respiration - Respiratory depression

**SECTION 11: Toxicological information****Rabbit - Dermal - LD50**

&gt;5 g/kg

Toxic effects: Skin After systemic exposure - Dermatitis, other**Rat - Inhalation - LC50 Vapour**78000 mg/m<sup>3</sup> [4 hours]**Rat - Oral - LD50**

16 g/kg

**Rat - Dermal - LD50**

17900 mg/kg

**Rat - Inhalation - LC50 Vapour**

29 mg/l [4 hours]

**Rat - Oral - LD50**

548 mg/kg

Toxic effects: Behavioral - Muscle weakness Lung, Thorax, or Respiration - Dyspnea Other - Hair**Rat - Dermal - LD50**

1001 mg/kg

N-BUTYL METHACRYLATE

2-hydroxyethyl acrylate

**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	2388.8	N/A	24.1	N/A
Reaction mass of ethylbenzene and xylene	N/A	1100	N/A	11	N/A
n-butyl acetate	10768	N/A	N/A	21.1	N/A
isopentyl acetate	16600	N/A	N/A	N/A	N/A
methyl methacrylate	7872	N/A	N/A	78	N/A
N-BUTYL METHACRYLATE	16000	17900	N/A	29	N/A
2-hydroxyethyl acrylate	548	300	N/A	N/A	N/A

**Skin corrosion/irritation****Product/ingredient name**

isopentyl acetate

**Result****Rabbit - Skin - Erythema/Eschar**

OECD [Acute Dermal Irritation/Corrosion]

Irritation score: 1.7

Fully reversible

N-BUTYL METHACRYLATE

**Rabbit - Skin - Mild irritant**Amount/concentration applied: 500 uL

2-hydroxyethyl acrylate

**Rabbit - Skin - Mild irritant**Duration of treatment/exposure: 24 hoursAmount/concentration applied: 10 mg**Rabbit - Skin - Moderate irritant**Amount/concentration applied: 500 mg**Conclusion/Summary [Product]** : Not available.**Serious eye damage/eye irritation**

**SECTION 11: Toxicological information**

Not available.

**Conclusion/Summary [Product]** : Not available.**Respiratory corrosion/irritation**

Not available.

**Conclusion/Summary [Product]** : Not available.**Respiratory or skin sensitization****Product/ingredient name**Fatty acids, linseed-oil, reaction products  
with 2-amino-2-(hydroxymethyl)  
-1,3-propanediol and formaldehyde**Result****Mouse - skin**

OECD 429

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**Reaction mass of ethylbenzene and xylene  
n-butyl acetate  
methyl methacrylate  
N-BUTYL METHACRYLATE**Result**

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)

**Specific target organ toxicity (repeated exposure)****Product/ingredient name**

Reaction mass of ethylbenzene and xylene

**Result**

STOT RE 2, H373

**Aspiration hazard****Product/ingredient name****Result**

**SECTION 11: Toxicological information**

Reaction mass of ethylbenzene and xylene

ASPIRATION HAZARD - Category 1

**Information on likely routes of exposure**

Not available.

**Potential acute health effects**

- Eye contact** : Causes serious eye irritation.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

**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
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- 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** : May cause damage to organs through prolonged or repeated exposure.
- 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****Product/ingredient name**

Reaction mass of ethylbenzene and xylene

**Result****Acute - LC50**

OECD 203

Fish - Trout - *Oncorhynchus mykiss*

2.6 mg/l [96 hours]

**Acute - LC50**

OECD 202

Daphnia - Daphnia - *Daphnia magna*



SECTION 12: Ecological information

1 mg/l [24 hours]

**Acute - EC50**  
OECD 201  
Algae - Algae - *Selenastrum capricornutum*  
2.2 mg/l [73 hours]

**Chronic - NOEC**  
OECD 301F  
Micro-organism - Activated sludge - *Activated sludge*  
16 mg/l [28 days]

n-butyl acetate

**Acute - LC50 - Marine water**  
Fish - Inland silverside - *Menidia beryllina*  
185 ppm [96 hours]  
Effect: Mortality

isopentyl acetate

**Acute - LC50**  
OECD [Fish, Acute Toxicity Test]  
Fish  
11.1 mg/l [96 hours]

Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde

**Acute - EC50**  
OECD 202  
Daphnia - Daphnia  
4600 mg/l [48 hours]

**Acute - LC50**  
OECD 203  
Fish - *Danio rerio*  
1000000 mg/l [96 hours]

**EC50 - Fresh water**  
OECD 201  
Algae - Algae  
15 mg/l [72 hours]

**Chronic - NOEC**  
OECD 201  
Algae - Algae  
12 mg/l [72 hours]

methyl methacrylate

**Acute - LC50 - Fresh water**  
Fish - Fathead minnow - *Pimephales promelas* - Adult  
130 mg/l [96 hours]  
Effect: Mortality

N-BUTYL METHACRYLATE

**Chronic - NOEC - Fresh water**  
Daphnia - Water flea - *Daphnia magna* - Neonate  
Age: <24 hours  
2.6 mg/l [21 days]  
Effect: Reproduction

2-hydroxyethyl acrylate

**Acute - LC50 - Fresh water**  
Fish - Fathead minnow - *Pimephales promelas* - Juvenile (Fledgling, Hatchling, Weanling)  
Age: 28 to 34 days; Size: 20.9 mm; Weight: 0.134 g  
4800 µg/l [96 hours]  
Effect: Mortality

Conclusion/Summary [Product] : Not available.

**SECTION 12: Ecological information****12.2 Persistence and degradability****Product/ingredient name****Result**

isopentyl acetate

OECD [ Ready Biodegradability - Modified MITI Test (I)]  
88% [28 days] - Readily

2-hydroxyethyl acrylate

EU  
78% [28 days] - Readily**Conclusion/Summary [Product]** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
isopentyl acetate	-	-	Readily
Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde	-	-	Not readily
2-hydroxyethyl acrylate	-	-	Readily

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Reaction mass of ethylbenzene and xylene	3.16	-	Low
n-butyl acetate	2.3	-	Low
isopentyl acetate	2.25	-	Low
methyl methacrylate	1.38	-	Low
butyl methacrylate	2.99	-	Low
2-hydroxyethyl acrylate	-0.17	-	Low

**12.4 Mobility in soil****Soil/water partition coefficient** : Not available.**Mobility** : Not available.**12.5 Results of PBT and vPvB assessment**

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Reaction mass of ethylbenzene and xylene	N/A	N/A	N/A	Yes	N/A	N/A	N/A
n-butyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
isopentyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde	No	N/A	N/A	No	N/A	N/A	N/A
methyl methacrylate	No	N/A	N/A	No	N/A	N/A	N/A
N-BUTYL METHACRYLATE	No	N/A	N/A	No	N/A	N/A	N/A
2-hydroxyethyl acrylate	No	N/A	N/A	No	N/A	N/A	N/A

**SECTION 12: Ecological information****12.6 Other adverse effects** : No known significant effects or critical hazards.**SECTION 13: Disposal considerations**

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

**13.1 Waste treatment methods****Product**

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

**Hazardous waste** : Yes.

**Waste catalogue**

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances





**Packaging**

**Methods of disposal** : 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**

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number</b>	UN1263	UN1263	UN1263	UN1263
<b>14.2 UN proper shipping name</b>	PAINT	PAINT	PAINT	PAINT
<b>14.3 Transport hazard class(es)</b>	3 	3 	3 	3 
<b>14.4 Packing group</b>	III	III	III	III
<b>14.5 Environmental hazards</b>	No.	Yes.	No.	No.

**Additional information**

**ADR/RID** : **Tunnel code** (D/E)

**SECTION 14: Transport information**

**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.

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

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH****Annex XIV - List of substances subject to authorisation****Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

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

**Seveso Directive**

This product is controlled under the Seveso Directive.

**Danger criteria****Category**

P5c

**National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes
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**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 assessment** : This product contains substances for which Chemical Safety Assessments are still required.

**SECTION 16: Other information**

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  
 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 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412	On basis of test data 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.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

**Full text of classifications**

**SECTION 16: Other information**

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - 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
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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**Notice to reader**

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