# watco® SAFETY DATA SHEET

Chemi-Coat Rapid - Resin

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

### 1.1 Product identifier

**Product name** : Chemi-Coat Rapid - Resin

**Product description** : Coating.

**Product type** : Liquid.

**UFI** : 0M3W-F0XD-5004-8TJ6

**Product code** : WAT0043

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

| Identified uses |
|---|
| Consumer<br>Industrial<br>Professional |

| Uses advised against | Reason |
|---|---|
| None identified. | - |

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

Watco UK Limited
Eastgate Court
195-205 High Street
Guildford
Surrey
GU1 3EH
United Kingdom
Watco UK:
T: +44 (0) 1483 425000 (08:00 - 18:00)
F: +44 (0) 1483 428888

Watco FR
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Arteparc
9 rue des Bouleaux
59810 Lesquin, France
Watco FR:
T: +33 (0) 3 20 52 77 77
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info@watco.fr
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T: +32 13 458 905

Watco GmbH DE
Kränkelsweg 14
41748 Viersen
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Watco DE:
T: +49 (0) 21 62 530 17 17(08:00 - 17:00)
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info@watco.de
Watco AT:
T: +43 1 310 09 10

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

**e-mail address of person responsible for this SDS** : rpmeurohas@rustoleum.eu

### 1.4 Emergency telephone number

**National advisory body/Poison Centre**

Telephone number United Kingdom: Northern Ireland : 01 809 2166
Available 8am to 10pm 7 days per week

**Supplier**

Telephone number United Kingdom: Northern Ireland : +353 19014670

Hours of operation : 24 / 7

# 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]**

Skin Irrit. 2, H315
Eye Irrit. 2, H319
Skin Sens. 1, H317
Aquatic Chronic 2, H411

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

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

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

### 2.2 Label elements

**Hazard pictograms** :

**Signal word** : Warning

**Hazard statements** : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements**

**General** : P103 - Read carefully and follow all instructions.
P102 - Keep out of reach of children.
P101 - If medical advice is needed, have product container or label at hand.

**Prevention** : P280 - Wear protective gloves. Wear eye or face protection.
P273 - Avoid release to the environment.

**Response** : P391 - Collect spillage.

**Storage** : Not applicable.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** : 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
benzyl alcohol
maleic anhydride

## SECTION 2: Hazards identification

**Supplemental label elements** : EUH205 - Contains epoxy constituents. May produce an allergic reaction.

**Supplemental label elements : Detergents - Regulation (EC) No 907/2006** : Not applicable.

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

**Special packaging requirements**

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII**

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

**Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006.** : Not applicable

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

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

**United Kingdom: Northern Ireland**

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|---|---|---|---|---|---|
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane | REACH #: 01-2119456619-26<br>EC: 216-823-5<br>CAS: 1675-54-3<br>Index: 603-073-00-2 | ≥25 - ≤50 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 | Skin Irrit. 2, H315: C ≥ 5%<br>Eye Irrit. 2, H319: C ≥ 5% | [1] |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | REACH #: 01-2119454392-40<br>EC: 500-006-8<br>CAS: 9003-36-5 | ≥10 - ≤25 | Skin Irrit. 2, H315<br>Skin Sens. 1A, H317<br>Aquatic Chronic 2, H411 | - | [1] |
| benzyl alcohol | EC: 202-859-9<br>CAS: 100-51-6<br>Index: 603-057-00-5 | ≤10 | Acute Tox. 4, H302<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317 | ATE [Oral] = 1200 mg/kg | [1] |
| hydrocarbons, aromatic, C9 | REACH #: 01-2119455851-35<br>EC: 918-668-5 | ≤3 | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, | - | [1] |

## SECTION 3: Composition/information on ingredients

| | | | | | |
|---|---|---|---|---|---|
| | | | H411<br>EUH066 | | |
| 2-methoxy-1-methylethyl acetate | REACH #: 01-2119475791-29<br>EC: 203-603-9<br>CAS: 108-65-6<br>Index: 607-195-00-7 | ≤1 | Flam. Liq. 3, H226<br>STOT SE 3, H336 | - | [1] [2] |
| xylene (mixture of isomeres) | REACH #: 01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7 | ≤1 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 | ATE [Dermal] = 1100 mg/kg<br>ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |
| di-isobutyl ketone | REACH #: 01-2119474441-41<br>EC: 203-620-1<br>CAS: 108-83-8<br>Index: 606-005-00-X | ≤0,3 | Flam. Liq. 3, H226<br>STOT SE 3, H335 | STOT SE 3, H335: C ≥ 10% | [1] [2] |
| crystalline silica, respirable powder | EC: 238-878-4<br>CAS: 14808-60-7 | ≤0,3 | STOT RE 1, H372 | - | [1] [2] |
| maleic anhydride | REACH #: 01-2119472428-31<br>EC: 203-571-6<br>CAS: 108-31-6<br>Index: 607-096-00-9 | ≤0,1 | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Resp. Sens. 1, H334<br>Skin Sens. 1A, H317<br>STOT RE 1, H372 (inhalation)<br>EUH071<br>**See Section 16 for the full text of the H statements declared above.** | ATE [Oral] = 400 mg/kg<br>Skin Sens. 1, H317: C ≥ 0,001% | [1] [2] |

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.

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

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

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

## SECTION 4: First aid measures

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If 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 adverse health effects persist or are severe. 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.

**Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

**Over-exposure signs/symptoms**

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:
irritation
redness

**Ingestion** : No specific data.

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

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

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

## SECTION 5: Firefighting measures

**Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
halogenated compounds
metal oxide/oxides

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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

**Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

**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.

## 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

**Seveso Directive - Reporting thresholds**

**Danger criteria**

| Category | Notification and MAPP threshold | Safety report threshold |
|---|---|---|
| E2 | 200 tonnes | 500 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 / Biological exposure indices**

| Product/ingredient name | Exposure limit values |
|---|---|
| 2-methoxy-1-methylethyl acetate | **EH40/2005 WELs (United Kingdom (UK), 1/2020)** Absorbed through skin.<br>STEL 15 minutes: 548 mg/m³.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 274 mg/m³.<br>STEL 15 minutes: 100 ppm. |
| xylene (mixture of isomeres) | **EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-,p- or mixed isomers]** Absorbed through skin.<br>STEL 15 minutes: 441 mg/m³.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 220 mg/m³.<br>STEL 15 minutes: 100 ppm. |
| di-isobutyl ketone | **EH40/2005 WELs (United Kingdom (UK), 1/2020)**<br>TWA 8 hours: 25 ppm. |

## SECTION 8: Exposure controls/personal protection

| | |
|---|---|
| crystalline silica, respirable powder | TWA 8 hours: 148 mg/m³.<br>**EH40/2005 WELs (United Kingdom (UK), 1/2020) [silica, respirable crystalline]** Carc.<br>TWA 8 hours: 0,1 mg/m³. Form: Respirable fraction. |
| maleic anhydride | **EH40/2005 WELs (United Kingdom (UK), 1/2020)** Inhalation sensitiser.<br>STEL 15 minutes: 3 mg/m³.<br>TWA 8 hours: 1 mg/m³. |

| Product/ingredient name | Exposure indices |
|---|---|
| xylene (mixture of isomeres) | **EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Xylene, o-, m-, p- or mixed isomers]**<br>BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift. |

**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 | Result | Value | Effects |
|---|---|---|---|
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane | **DNEL - General population - Long term - Dermal** | 89,3 µg/kg bw/ day | Effects: Systemic |
| | **DNEL - General population - Long term - Oral** | 0,5 mg/kg bw/ day | Effects: Systemic |
| | **DNEL - Workers - Long term - Dermal** | 0,75 mg/kg bw/ day | Effects: Systemic |
| | **DNEL - General population - Long term - Inhalation** | 0,87 mg/m³ | Effects: Systemic |
| | **DNEL - Workers - Long term - Inhalation** | 4,93 mg/m³ | Effects: Systemic |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | **DMEL - Workers - Short term - Dermal** | 8,3 µg/cm² | Effects: Local |
| | **DNEL - General population - Long term - Oral** | 6,25 mg/kg bw/ day | Effects: Systemic |
| | **DNEL - General population - Long term - Inhalation** | 8,7 mg/m³ | Effects: Systemic |
| | **DNEL - Workers - Long term - Inhalation** | 29,39 mg/m³ | Effects: Systemic |
| | **DNEL - General population - Long term - Dermal** | 62,5 mg/kg bw/ day | Effects: Systemic |
| | **DNEL - Workers - Long term - Dermal** | 104,15 mg/kg bw/day | Effects: Systemic |
| benzyl alcohol | **DNEL - General population -** | 4 mg/kg bw/day | Effects: |

## SECTION 8: Exposure controls/personal protection

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|---|---|---|---|
| | **Long term - Oral** | | Systemic |
| | **DNEL - General population - Long term - Dermal** | 4 mg/kg bw/day | Effects: Systemic |
| | **DNEL - General population - Long term - Inhalation** | 5,4 mg/m³ | Effects: Systemic |
| | **DNEL - Workers - Long term - Dermal** | 8 mg/kg bw/day | Effects: Systemic |
| | **DNEL - General population - Short term - Oral** | 20 mg/kg bw/day | Effects: Systemic |
| | **DNEL - General population - Short term - Dermal** | 20 mg/kg bw/day | Effects: Systemic |
| | **DNEL - Workers - Long term - Inhalation** | 22 mg/m³ | Effects: Systemic |
| | **DNEL - General population - Short term - Inhalation** | 27 mg/m³ | Effects: Systemic |
| | **DNEL - Workers - Short term - Dermal** | 40 mg/kg bw/day | Effects: Systemic |
| | **DNEL - Workers - Short term - Inhalation** | 110 mg/m³ | Effects: Systemic |
| hydrocarbons, aromatic, C9 | **DNEL - Workers - Long term - Inhalation** | 150 mg/m³ | Effects: Systemic |
| | **DNEL - Workers - Long term - Dermal** | 25 mg/kg | Effects: Systemic |
| | **DNEL - General population - Long term - Dermal** | 11 mg/kg | Effects: Systemic |
| | **DNEL - General population - Long term - Inhalation** | 32 mg/m³ | Effects: Systemic |
| | **DNEL - General population - Long term - Oral** | 11 mg/kg | Effects: Systemic |
| 2-methoxy-1-methylethyl acetate | **DNEL - Workers - Long term - Inhalation** | 275 mg/m³ | Effects: Systemic |
| | **DNEL - Workers - Long term - Dermal** | 153,5 mg/m³ | Effects: Systemic |
| | **DNEL - General population - Consumers - Long term - Dermal** | 54,8 mg/m³ | Effects: Systemic |
| | **DNEL - General population - Consumers - Long term - Oral** | 1,67 mg/m³ | Effects: Systemic |
| | **DNEL - Workers - Long term - Dermal** | 796 mg/kg | Effects: Systemic |
| | **DNEL - General population - Long term - Dermal** | 320 mg/kg | Effects: Systemic |

## SECTION 8: Exposure controls/personal protection

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|---|---|---|---|
| | **DNEL - General population - Long term - Oral** | 36 mg/kg | Effects: Systemic |
| | **DNEL - General population - Long term - Inhalation** | 33 mg/m³ | Effects: Local |
| | **DNEL - General population - Long term - Inhalation** | 33 mg/m³ | Effects: Systemic |
| | **DNEL - Workers - Short term - Inhalation** | 550 mg/m³ | Effects: Local |
| xylene (mixture of isomeres) | **DNEL - Workers - Short term - Inhalation** | 289 mg/m³ | Effects: Local |
| | **DNEL - Workers - Short term - Inhalation** | 289 mg/m³ | Effects: Systemic |
| | **DNEL - Workers - Long term - Inhalation** | 77 mg/m³ | Effects: Systemic |
| | **DNEL - Workers - Long term - Dermal** | 180 mg/m³ | Effects: Systemic |
| | **DNEL - General population - Consumers - Short term - Inhalation** | 174 mg/m³ | Effects: Local |
| | **DNEL - General population - Consumers - Short term - Inhalation** | 174 mg/m³ | Effects: Systemic |
| | **DNEL - General population - Consumers - Long term - Inhalation** | 14,8 mg/m³ | Effects: Systemic |
| | **DNEL - General population - Consumers - Long term - Dermal** | 108 mg/m³ | Effects: Systemic |
| | **DNEL - General population - Long term - Oral** | 5 mg/kg bw/day | Effects: Systemic |
| | **DNEL - General population - Long term - Inhalation** | 65,3 mg/m³ | Effects: Local |
| | **DNEL - General population - Long term - Inhalation** | 65,3 mg/m³ | Effects: Systemic |
| | **DNEL - General population - Long term - Dermal** | 125 mg/kg bw/day | Effects: Systemic |
| | **DNEL - Workers - Long term - Dermal** | 212 mg/kg bw/day | Effects: Systemic |
| | **DNEL - Workers - Long term - Inhalation** | 221 mg/m³ | Effects: Local |
| | **DNEL - Workers - Long term - Inhalation** | 221 mg/m³ | Effects: Systemic |
| | **DNEL - General population - Short term - Inhalation** | 260 mg/m³ | Effects: Local |

## SECTION 8: Exposure controls/personal protection

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|---|---|---|---|
| | **DNEL - General population - Short term - Inhalation** | 260 mg/m³ | Effects: Systemic |
| | **DNEL - Workers - Short term - Inhalation** | 442 mg/m³ | Effects: Local |
| | **DNEL - Workers - Short term - Inhalation** | 442 mg/m³ | Effects: Systemic |
| di-isobutyl ketone | **DNEL - Workers - Long term - Inhalation** | 290 mg/m³ | Effects: Systemic |
| | **DNEL - Workers - Long term - Dermal** | 80 mg/kg | Effects: Systemic |
| | **DNEL - Workers - Long term - Inhalation** | 479 mg/m³ | Effects: Systemic |
| | **DNEL - General population - Long term - Inhalation** | 145 mg/m³ | Effects: Local |
| | **DNEL - General population - Long term - Dermal** | 28,5 mg/kg | Effects: Systemic |
| | **DNEL - General population - Long term - Inhalation** | 171 mg/kg | Effects: Systemic |
| | **DNEL - General population - Long term - Oral** | 7,14 mg/kg | Effects: Systemic |
| | **DNEL - Workers - Long term - Dermal** | 7,7 mg/kg bw/day | Effects: Systemic |
| | **DNEL - Workers - Long term - Inhalation** | 53 mg/m³ | Effects: Systemic |
| maleic anhydride | **DNEL - Workers - Short term - Inhalation** | 0,8 mg/m³ | Effects: Systemic |
| | **DNEL - Workers - Short term - Dermal** | 0,04 mg/kg | Effects: Systemic |
| | **DNEL - Workers - Long term - Inhalation** | 0,4 mg/m³ | Effects: Systemic |
| | **DNEL - General population - Long term - Inhalation** | 0,05 mg/m³ | Effects: Systemic |
| | **DNEL - General population - Long term - Oral** | 0,06 mg/kg bw/day | Effects: Systemic |
| | **DNEL - General population - Long term - Inhalation** | 0,08 mg/m³ | Effects: Local |
| | **DNEL - Workers - Long term - Inhalation** | 0,081 mg/m³ | Effects: Local |
| | **DNEL - General population - Short term - Oral** | 0,1 mg/kg bw/day | Effects: Systemic |
| | **DNEL - General population - Short term - Dermal** | 0,1 mg/kg bw/day | Effects: Systemic |

## SECTION 8: Exposure controls/personal protection

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|---|---|---|---|
| | **DNEL - General population - Long term - Dermal** | 0,1 mg/kg bw/ day | Effects: Systemic |
| | **DNEL - Workers - Long term - Dermal** | 0,2 mg/kg bw/ day | Effects: Systemic |
| | **DNEL - Workers - Short term - Inhalation** | 0,2 mg/m³ | Effects: Local |

**PNECs**

| Product/ingredient name | Result | Value | Remarks |
|---|---|---|---|
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | **Fresh water** | 0,003 mg/l | - |
| | **Marine water** | 0,0003 mg/l | - |
| | **Sewage Treatment Plant** | 10 mg/l | - |
| | **Fresh water sediment** | 0,294 mg/kg dwt | - |
| | **Marine water sediment** | 0,0294 mg/kg dwt | - |
| | **Soil** | 0,237 mg/kg dwt | - |
| benzyl alcohol | **Fresh water** | 2,3 mg/l | - |
| | **Sewage Treatment Plant** | 39 mg/l | - |
| | **Fresh water sediment** | 5,27 mg/kg | - |
| | **Soil** | 0,456 mg/kg | - |
| | **Marine water sediment** | 0,527 mg/kg | - |
| | **Fresh water** | 1 mg/l | - |
| | **Marine water** | 0,1 mg/l | - |
| 2-methoxy-1-methylethyl acetate | **Fresh water** | 0,635 mg/l | - |
| | **Fresh water sediment** | 3,29 mg/kg | - |
| | **Marine water sediment** | 0,329 mg/kg | - |
| | **Soil** | 0,29 mg/kg | - |
| | **Sewage Treatment Plant** | 100 mg/l | - |
| | **Marine water** | 0,0635 mg/l | - |
| xylene (mixture of isomeres) | **Fresh water** | 0,327 mg/l | - |
| | **Marine water** | 0,327 mg/l | - |
| | **Fresh water sediment** | 12,46 mg/kg | - |
| | **Marine water sediment** | 12,46 mg/kg | - |
| | **Soil** | 2,31 mg/kg | - |
| | **Sewage Treatment Plant** | 6,58 mg/l | - |

## SECTION 8: Exposure controls/personal protection

| | | | |
|---|---|---|---|
| di-isobutyl ketone | **Fresh water** | 0,03 mg/l | - |
| | **Marine water** | 0,003 mg/l | - |
| | **Fresh water sediment** | 0,46 mg/kg | - |
| | **Marine water sediment** | 0,046 mg/kg | - |
| | **Sewage Treatment Plant** | 2,55 mg/l | - |
| | **Soil** | 0,0746 mg/kg | - |
| maleic anhydride | **Fresh water** | 0,04281 mg/l | - |
| | **Marine water** | 0,004281 mg/l | - |
| | **Soil** | 0,0415 mg/l | - |
| | **Fresh water sediment** | 0,334 mg/kg | - |
| | **Marine water sediment** | 0,0334 mg/kg | - |
| | **Sewage Treatment Plant** | 44,6 mg/l | - |

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**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** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin 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.

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Butyl rubber gloves.

## SECTION 8: Exposure controls/personal protection

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. 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** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Overalls buttoned to the neck and wrist. (EN 467)

**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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour (Type A) and particulate filter (as filter combination A-P2) (EN 141)

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

## SECTION 9: Physical and chemical properties

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

### 9.1 Information on basic physical and chemical properties

**Physical state** : Liquid. [Viscous liquid.]

**Colour** : Various

**Odour** : Slight [Slight]

**Odour threshold** : Not available.

**Melting point/freezing point** : Not available.

**Initial boiling point and boiling range** : 165°C (329°F) [Literature hydrocarbons, aromatic, C9]

**Flammability (solid, gas)** : Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.

**Lower and upper explosion limit** : Lower: 1,26% [Calculated (Le Chatelier mixture rule)]
Upper: 10,04% [Calculated (Le Chatelier mixture rule)]

**Flash point** : Closed cup: >93°C (>199,4°F) [Literature Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol]

**Auto-ignition temperature** : 450°C (842°F) [Literature Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol]

**Decomposition temperature** : Not available.

**pH** : Not applicable.

**pH : Justification** : Product is non-soluble (in water).

**Viscosity** : Dynamic (room temperature): >500 mPa·s [Literature]
Kinematic (room temperature): Not available.
Kinematic (40°C): Not available.

**Solubility(ies)** :

| Media | Result |
|---|---|
| cold water | Not soluble |
| hot water | Not soluble |

**Solubility in water** : Not available.

**Miscible with water** : No.

## SECTION 9: Physical and chemical properties

**Partition coefficient: n-octanol/ water** : Not applicable.

**Vapour pressure** :

| Ingredient name | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|---|---|---|---|---|---|---|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 0,62 | 0,083 | EU A.4 | | | |
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane | 0 | 0 | | 0 | 0 | |

**Evaporation rate** : Not available.

**Relative density** : Not available.

**Density** : 1,608 to 1,764 g/cm³ [20°C (68°F)] [DIN 53217]

**Vapour density** : Not available.

**Explosive properties** : Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.

**Oxidising properties** : Not available.

**Particle characteristics**

**Median particle size** : Not applicable.

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : No specific data.

**10.5 Incompatible materials** : No specific data.

**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

**Acute toxicity**

| Product/ingredient name | Result | Value |
|---|---|---|
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane | **Rabbit - Dermal - LD50** | 20 g/kg |
| benzyl alcohol | **Rat - Oral - LD50** | 1660 mg/kg |
| | **Rabbit - Dermal - LD50** | 2000 mg/kg |
| hydrocarbons, aromatic, C9 | **Rat - Oral - LD50** | 8400 mg/kg |
| 2-methoxy-1-methylethyl acetate | **Rabbit - Dermal - LD50** | >5 g/kg |
| | **Rat - Inhalation - NOEL Dusts** | 8100 mg/m³ [4 hours] |

## SECTION 11: Toxicological information

| | | |
|---|---|---|
| | **and mists** | |
| xylene (mixture of isomeres) | **Rat - Oral - LD50** | 4300 mg/kg |
| | **Rabbit - Dermal - TDLo** | 4300 mg/kg |
| | **Rabbit - Dermal - LD50** | 1100 mg/kg |
| di-isobutyl ketone | **Rat - Oral - LD50** | 5750 mg/kg |
| | **Rabbit - Dermal - LD50** | 16120 mg/kg |
| | **Rat - Inhalation - LCLo Vapour** | 2000 ppm [4 hours] |
| maleic anhydride | **Rat - Oral - LD50** | 400 mg/kg |
| | **Rabbit - Dermal - LD50** | 2620 mg/kg |

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

**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) |
|---|---|---|---|---|---|
| Chemi-Coat Rapid - Resin | 23575,6 | N/A | N/A | N/A | N/A |
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane | N/A | 20000 | N/A | N/A | N/A |
| benzyl alcohol | 1200 | N/A | N/A | N/A | N/A |
| hydrocarbons, aromatic, C9 | 8400 | N/A | N/A | N/A | N/A |
| xylene (mixture of isomeres) | 4300 | 1100 | N/A | 11 | N/A |
| di-isobutyl ketone | 5750 | 16120 | N/A | N/A | N/A |
| maleic anhydride | 400 | 2620 | N/A | N/A | N/A |

**Skin corrosion/irritation**

| Product/ingredient name | Result | Exposure | Observation |
|---|---|---|---|
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane | **Rabbit - Skin - Mild irritant** | Amount/concentration applied: 500 mg | - |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | **Rabbit - Skin - Mild irritant** | Amount/concentration applied: 500 uL | - |
| | **Rabbit - Skin - Erythema/Eschar** | - | Observation period: 72 hours |
| benzyl alcohol | **Pig - Skin - Moderate irritant** | Amount/concentration applied: 100 % | - |
| xylene (mixture of isomeres) | **Rat - Skin - Mild irritant** | Amount/concentration applied: 60 uL | - |
| | **Rabbit - Skin - Moderate irritant** | Amount/concentration applied: 500 mg | - |
| | **Rabbit - Skin - Moderate irritant** | Amount/concentration applied: 100 % | - |
| di-isobutyl ketone | | Amount/concentration | - |

## SECTION 11: Toxicological information

| | | | |
|---|---|---|---|
| | **Rabbit - Skin - Mild irritant** | applied: 10 mg | |
| | **Rabbit - Skin - Mild irritant** | Amount/concentration applied: 500 mg | - |

**Conclusion/Summary [Product]** : Causes skin irritation.

| **Ingredient name** | **Conclusion/Summary** |
|---|---|
| di-isobutyl ketone | Non-irritating to the skin. |

### Serious eye damage/eye irritation

| **Product/ingredient name** | **Result** | **Exposure** | **Observation** |
|---|---|---|---|
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane | **Rabbit - Eyes - Severe irritant** | Amount/concentration applied: 2 mg | - |
| benzyl alcohol | **Rabbit - Eyes - Irritant** | - | - |
| hydrocarbons, aromatic, C9 | **Rabbit - Eyes - Mild irritant** | Amount/concentration applied: 100 Ul | - |
| xylene (mixture of isomeres) | **Rabbit - Eyes - Mild irritant** | Amount/concentration applied: 87 mg | - |
| | **Rabbit - Eyes - Severe irritant** | Amount/concentration applied: 5 mg | - |
| | **Rabbit - Eyes - Moderate irritant** | - | - |
| di-isobutyl ketone | **Human - Eyes - Mild irritant** | Amount/concentration applied: 25 ppm | - |
| | **Rabbit - Eyes - Mild irritant** | Amount/concentration applied: 500 mg | - |
| maleic anhydride | **Rabbit - Eyes - Severe irritant** | Amount/concentration applied: 1 % | - |

**Conclusion/Summary [Product]** : Causes serious eye irritation.

| **Ingredient name** | **Conclusion/Summary** |
|---|---|
| di-isobutyl ketone | Non-irritating to the eyes. |

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

### Respiratory or skin sensitization

## SECTION 11: Toxicological information

| Product/ingredient name | Species - Route of exposure | Result |
|---|---|---|
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane | **Mouse - skin** | Result: Sensitising |
| | **Guinea pig - skin** | Result: Sensitising |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | **Guinea pig - skin** | Result: Sensitising |
| | **Guinea pig - skin** | Result: Sensitising |

**Skin**

**Conclusion/Summary [Product]** : May cause an allergic skin reaction.

| Ingredient name | Conclusion/Summary |
|---|---|
| di-isobutyl ketone | Non-sensitiser to skin. |

**Respiratory**

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

Not available.

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

**Carcinogenicity**

| Product/ingredient name | Species - Route of exposure | Result |
|---|---|---|
| benzyl alcohol | **Rat - Oral - TD** | Result: Negative |

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Not available.

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

**Specific target organ toxicity (single exposure)**

| Product/ingredient name | Result |
|---|---|
| hydrocarbons, aromatic, C9 | STOT SE 3, H335 (Respiratory tract irritation)<br>STOT SE 3, H336 (Narcotic effects) |
| 2-methoxy-1-methylethyl acetate | STOT SE 3, H336 (Narcotic effects) |
| xylene (mixture of isomeres) | STOT SE 3, H335 (Respiratory tract irritation) |
| di-isobutyl ketone | STOT SE 3, H335 (Respiratory tract irritation) |

**Specific target organ toxicity (repeated exposure)**

| Product/ingredient name | Result |
|---|---|
| xylene (mixture of isomeres) | STOT RE 2, H373 |
| maleic anhydride | STOT RE 1, H372 (inhalation) |

**Aspiration hazard**

| Product/ingredient name | Result |
|---|---|

## SECTION 11: Toxicological information

| | |
|---|---|
| hydrocarbons, aromatic, C9 | ASPIRATION HAZARD - Category 1 |
| xylene (mixture of isomeres) | ASPIRATION HAZARD - Category 1 |

**Information on likely routes of exposure**

Not available.

**Potential acute health effects**

**Eye contact** : Causes serious eye irritation.

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

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

**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** : No specific data.

**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** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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

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

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

### 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

| Product/ingredient name | Result | Species |
|---|---|---|
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | **Acute - EC50**<br>2 mg/l [24 hours] | Daphnia spec. |
| | **Acute - LC50**<br>2 mg/l [96 hours] | Fish |
| | **Acute - EC50**<br>1,8 mg/l [72 hours] | Algae |
| | **Acute - EC50**<br>1,6 mg/l [48 hours] | Daphnia spec. |
| | **Acute - IC50**<br>>100 mg/l [3 hours] | Bacteria |
| | **Acute - LC50**<br>0,55 mg/l [96 hours] | Fish |
| | **Chronic - NOEC**<br>0,3 mg/l [21 days] | Daphnia spec. |
| benzyl alcohol | **Acute - EC50**<br>770 mg/l [72 hours] | Algae |
| | **Acute - LC50**<br>646 mg/l [48 hours] | Fish |
| | **Acute - LC50 - Fresh water**<br>460 mg/l [96 hours] | Fish - Fathead minnow - Juvenile (Fledgling, Hatchling, Weanling) |
| | **Acute - NOEC**<br>310 mg/l [72 hours] | Algae |
| | **Acute - LC50 - Fresh water**<br>10 ppm [96 hours] | Fish - Bluegill |
| 2-methoxy-1-methylethyl acetate | **Acute - NOEC**<br>>1000 mg/l [96 hours] | Algae - Algae |
| | **Acute - LC50 - Fresh water**<br>130 mg/l [96 hours] | Fish - Rainbow trout (oncorhynchus mykiss) |
| | **Chronic - LC10**<br>100 mg/l [21 days] | Daphnia spec. - Daphnia spec. |
| | **Chronic - NOEC - Fresh water**<br>47,5 mg/l [14 days] | Fish |
| xylene (mixture of isomeres) | **Acute - EC50 - Fresh water**<br>90 mg/l [48 hours] | Crustaceans - Ostracod |
| maleic anhydride | **Acute - LC50 - Fresh water**<br>230 ppm [96 hours] | Fish - Western mosquitofish - Adult |

**Conclusion/Summary [Product]** : Toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

## SECTION 12: Ecological information

| Product/ingredient name | Test | Result |
|---|---|---|
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane | - | 6 to 12% [28 days] - Not readily |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | - | 0% [28 days] - Not readily |
| | - | 16% [28 days] - Not readily |
| benzyl alcohol | - | 96% [21 days] - Readily |
| 2-methoxy-1-methylethyl acetate | - | 100% [8 days] - Inherent |
| xylene (mixture of isomeres) | **Aerobic** | 90% [5 days] - Readily |

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

| Ingredient name | Conclusion/Summary |
|---|---|
| benzyl alcohol | Readily biodegradable |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane | - | - | Not readily |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | - | - | Not readily |
| benzyl alcohol | - | - | Readily |
| hydrocarbons, aromatic, C9 | - | - | Readily |
| 2-methoxy-1-methylethyl acetate | - | - | Readily |
| xylene (mixture of isomeres) | - | - | Readily |
| di-isobutyl ketone | - | - | Readily |

### 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane | 3,242 | 3 to 31 | Low |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 2,7 | 150 | Low |
| benzyl alcohol | 0,87 | - | Low |
| hydrocarbons, aromatic, C9 | 3.7 to 4.5 | 10 to 2500 | High |
| 2-methoxy-1-methylethyl acetate | 1,2 | - | Low |
| xylene (mixture of isomeres) | 3,12 | 8,1 to 25,9 | Low |
| di-isobutyl ketone | 3,71 | - | Low |
| maleic anhydride | -2,78 | - | Low |

### 12.4 Mobility in soil

**Soil/water partition coefficient**

## SECTION 12: Ecological information

| Product/ingredient name | logKoc | Koc |
|---|---|---|
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane | 4 | 10465,7 |
| benzyl alcohol | 1,1 | 12,6442 |
| 2-methoxy-1-methylethyl acetate | 0,36 | 2,31363 |
| di-isobutyl ketone | 2,3 | 213,676 |
| maleic anhydride | 1,1 | 11,4841 |

**Results of PMT and vPvM assessment**

| Product/ingredient name | PMT | P | M | T | vPvM | vP | vM |
|---|---|---|---|---|---|---|---|
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane | No | No | No | No | No | No | No |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | No | No | No | No | No | No | No |
| benzyl alcohol | No | No | No | No | No | No | No |
| hydrocarbons, aromatic, C9 | No | No | No | No | No | No | No |
| 2-methoxy-1-methylethyl acetate | No | No | No | No | No | No | No |
| xylene (mixture of isomeres) | No | No | No | No | No | No | No |
| di-isobutyl ketone | No | No | No | No | No | No | No |
| maleic anhydride | No | No | No | No | No | No | No |

**Mobility** : Non-volatile.

**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 |
|---|---|---|---|---|---|---|---|
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane | No | N/A | No | No | No | N/A | No |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | No | N/A | No | No | No | N/A | No |
| benzyl alcohol | No | N/A | N/A | No | N/A | N/A | N/A |
| hydrocarbons, aromatic, C9 | No | N/A | No | No | No | N/A | No |
| 2-methoxy-1-methylethyl acetate | No | N/A | N/A | No | N/A | N/A | N/A |
| xylene (mixture of isomeres) | No | N/A | No | Yes | No | N/A | No |
| di-isobutyl ketone | No | N/A | N/A | No | N/A | N/A | N/A |
| maleic anhydride | N/A | N/A | N/A | Yes | N/A | N/A | N/A |

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

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|---|---|---|---|---|---|---|---|
| 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane | No | No | No | No | No | No | No |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | No | No | No | No | No | No | No |
| benzyl alcohol | No | No | No | No | No | No | No |
| hydrocarbons, aromatic, C9 | No | No | No | No | No | No | No |
| 2-methoxy-1-methylethyl acetate | No | No | No | No | No | No | No |

## SECTION 12: Ecological information

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| xylene (mixture of isomeres) | No | No | No | No | No | No | No |
| di-isobutyl ketone | No | No | No | No | No | No | No |
| maleic anhydride | No | No | No | No | No | No | No |

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

### 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.

### 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.

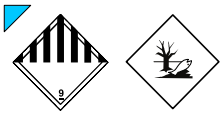
**Hazardous waste** : Yes.

**European waste catalogue (EWC)**

| Waste code | Waste designation |
|---|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other 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. 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** | UN3082 | UN3082 | UN3082 | UN3082 |
| **14.2 UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT) |
| **14.3 Transport hazard class(es)** | 9  | 9 | 9 | 9 |

## SECTION 14: Transport information

| | | | | |
|---|---|---|---|---|
| **14.4 Packing group** | III | III | III | III |
| **14.5 Environmental hazards** | Yes. | Yes. | Yes. | Yes. |

### Additional information ADR

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**Limited quantity** : 5L
**Transport Category** : 3
**Hazard identification number** : 90
**Classification code** : M6
**ADR Label Model Number** : 9
**Excepted Quantity** : E1
**Tunnel code** : (-)
**Packing instructions** : P001, IBC03, LP1, R001
**Mixed Packing Provisions** : MP19
**Special Packing Provisions** : PP1
**Special provisions** : 274, 335, 375, 601, 650

### Additional information ADN

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**Limited quantity** : 5L
**Classification code** : M6
**Special provisions** : 274, 335, 375, 601

### Additional information IMDG

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**Limited quantity** : 5L
**Emergency schedules** : F-A, S-F
**Special provisions** : 274, 335, 375, 969

### Additional information IATA

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**Passenger and Cargo Aircraft** : Quantity limitation 450L Packaging instruction 964
**Cargo aircraft** : Quantity limitation 450L Packaging instruction 964
**Limited Quantities - Passenger Aircraft** : Quantity limitation 30L Packaging instruction Y964
**Special provisions** : A97, A158, A197, A215

**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.

## SECTION 14: Transport information

**14.7 Maritime 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

#### 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] |
|---|---|---|
| Chemi-Coat Rapid - Resin | ≥90 | 3 |

**Labelling** : Not applicable.

#### Synthetic polymer microparticles - Designation 78

**Generic identity of polymer(s)** : Not applicable.

**Total percentage of synthetic polymer microparticles** : Not applicable.

#### Other EU regulations

**VOC** : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

**VOC for Ready-for-Use Mixture** : IIA/j. Two-pack reactive performance coatings for specific end use such as floors. EU limit value for this product : 500g/l (2010.)
This product contains a maximum of 216 g/l VOC.

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

**Explosive precursors** : Not applicable.

#### Ozone depleting substances (EU 2024/590)

Not listed.

#### Prior Informed Consent (PIC) (649/2012/EC)

Not listed.

#### Persistent Organic Pollutants (850/2004/EC)

Not listed.

#### Seveso Directive

This product is controlled under the Seveso Directive.

##### Danger criteria

## SECTION 15: Regulatory information

| Category |
| --- |
| E2 |

### National regulations

#### United Kingdom: Northern Ireland

**References** : EH40/2005 Workplace exposure limits
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878
REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

### International regulations

#### Stockholm Convention on Persistent Organic Pollutants

| List name | Ingredient name | Status |
| --- | --- | --- |
| Not listed. | | |

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

| List name | Ingredient name | Status |
| --- | --- | --- |
| Not listed. | | |

**CN code** : 3208 90 91 00

### Inventory list

**Australia** : At least one component is not listed.

**Canada** : At least one component is not listed.

**China** : At least one component is not listed.

**Eurasian Economic Union** : **Russian Federation inventory**: Not determined.

**Japan** : **Japan inventory (CSCL)**: At least one component is not listed.
**Japan inventory (ISHL)**: Not determined.

**New Zealand** : At least one component is not listed.

**Philippines** : At least one component is not listed.

**Republic of Korea** : At least one component is not listed.

**Taiwan** : At least one component is not listed.

**Thailand** : Not determined.

**Turkey** : Not determined.

**United States** : At least one component is not listed.

**Viet Nam** : Not determined.

**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** : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic

## SECTION 16: Other information

PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

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

| Classification | Justification |
|---|---|
| Skin Irrit. 2, H315 | Calculation method |
| Eye Irrit. 2, H319 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

**Full text of abbreviated H statements**

**United Kingdom: Northern Ireland**

**Full text of abbreviated H statements** :

| | |
|---|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| 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. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| EUH071 | Corrosive to the respiratory tract. |

**Full text of classifications [CLP/GHS]** :

| | |
|---|---|
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Resp. Sens. 1 | RESPIRATORY SENSITISATION - Category 1 |
| 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. 1A | SKIN SENSITISATION - Category 1A |
| Skin Sens. 1B | SKIN SENSITISATION - Category 1B |
| STOT RE 1 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |
| 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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## SECTION 16: Other information

**Date of previous issue** : 1/12/2024

**Version** : 8

**Notice to reader**

**IMPORTANT NOTE: The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.**

**MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.**

**Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**