



## Safety Data Sheet according to (EC) No 1907/2006 as amended

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POLYBOND EP - PART A

SDS No. : 564519  
V002.1

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

#### 1.1. Product identifier

POLYBOND EP - PART A

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

Intended use:  
2-c-epoxide adhesive

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

Henkel Jebal Ali FZCO  
PO Box 61341 - Jebel Ali  
Dubai

Utd.Arab.Emir.

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website [www.mysds.henkel.com](http://www.mysds.henkel.com) or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

HAAD Poison and Drug Information Center UAE, TOLL FREE TEL. NUMBER 800-424

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

|   |            |
|---|------------|
| Skin irritation                                       | Category 2 |
| H315 Causes skin irritation.                          |            |
| Serious eye irritation                                | Category 2 |
| H319 Causes serious eye irritation.                   |            |
| Skin sensitizer                                       | Category 1 |
| H317 May cause an allergic skin reaction.             |            |
| Chronic hazards to the aquatic environment            | Category 2 |
| H411 Toxic to aquatic life with long lasting effects. |            |

#### 2.2. Label elements

##### Label elements (CLP):

##### Hazard pictogram:



##### Contains

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

|  |   |
|--|---|
| <b>Signal word:</b>                        | Warning   |
| <b>Hazard statement:</b>                   | H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H411 Toxic to aquatic life with long lasting effects. |
| <b>Precautionary statement:</b>            | P102 Keep out of reach of children.<br>P101 If medical advice is needed, have product container or label at hand.   |
| <b>Precautionary statement: Prevention</b> | P273 Avoid release to the environment.<br>P280 Wear protective gloves/eye protection.   |
| <b>Precautionary statement: Disposal</b>   | P501 Dispose of contents/container in accordance with national regulation.  |

**2.3. Other hazards**

None if used properly.

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components<br>CAS-No.<br>EC Number<br>REACH-Reg. No.   | Concentration | Classification   | Specific Conc. Limits, M-factors and ATEs                             | Add. Information |
|--|---------------|--|---|------------------|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane<br><br>25068-38-6<br>216-823-5<br>01-2119456619-26 | 60- < 80 %    | Eye Irrit. 2, H319<br>Aquatic Chronic 2, H411<br>Skin Sens. 1, H317<br>Skin Irrit. 2, H315 | Eye Irrit. 2; H319; C $\geq$ 5 %<br>Skin Irrit. 2; H315; C $\geq$ 5 % |                  |
| Quartz (SiO <sub>2</sub> ), <1% respirable<br><br>14808-60-7<br>238-878-4  | 5- < 10 %     |  |   |                  |

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.  
For full text of the H - statements and other abbreviations see section 16 "Other information".

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

SKIN: Redness, inflammation.

Causes serious eye irritation.

May cause an allergic skin reaction.

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

See section: Description of first aid measures

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:**

carbon dioxide, foam, powder, water spray jet, fine water spray

**Extinguishing media which must not be used for safety reasons:**

High pressure waterjet

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

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) can be released.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

## SECTION 6: Accidental release measures

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

Wear protective equipment.

Avoid contact with skin and eyes.

Danger of slipping on spilled product.

### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

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

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Avoid skin and eye contact.

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool, dry place.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

**7.3. Specific end use(s)**

2-c-epoxide adhesive

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

**8.1. Control parameters**

**Occupational Exposure Limits**

Valid for

Utd.Arab.Emir.

| Ingredient [Regulated substance]   | ppm | mg/m <sup>3</sup> | Value type                   | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|------------------------------|--|-----------------|
| Quartz (SiO <sub>2</sub> )<br>14808-60-7<br>[QUARTZ SILICA CRYSTALLINE, CRISTOBALITE, RESPIRABLE FRACTION] |     | 0,025             | Time Weighted Average (TWA): |  | AD TLV          |
| Quartz (SiO <sub>2</sub> )<br>14808-60-7<br>[QUARTZ]   |     | 0,1               | Time Weighted Average (TWA): |  | GCC TLV         |
| Quartz (SiO <sub>2</sub> )<br>14808-60-7<br>[QUARTZ]   |     | 0,1               | Time Weighted Average (TWA): |  | UAE OEL         |
| Quartz (SiO <sub>2</sub> )<br>14808-60-7<br>[CRYSTALLINE SILICA (QUARTZ) (RESPIRABLE DUST)]                |     | 0,05              | Time Weighted Average (TWA): |  | UAE OEL         |
| Quartz (SiO <sub>2</sub> )<br>14808-60-7<br>[CRYSTALLIZE SILICA (QUARTZ) (RESPIRABLE DUST)]                |     | 0,05              | Time Weighted Average (TWA): |  | DB OEL          |

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**Occupational Exposure Limits**

Valid for  
Bharain

| Ingredient [Regulated substance]                     | ppm | mg/m <sup>3</sup> | Value type                   | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|------------------------------|--|-----------------|
| Quartz (SiO <sub>2</sub> )<br>14808-60-7<br>[QUARTZ] |     | 0,1               | Time Weighted Average (TWA): |  | BH TLV          |
| Quartz (SiO <sub>2</sub> )<br>14808-60-7<br>[QUARTZ] |     | 0,1               | Time Weighted Average (TWA): |  | GCC TLV         |

**Occupational Exposure Limits**

Valid for  
Egypt

| Ingredient [Regulated substance]  | ppm | mg/m <sup>3</sup> | Value type                   | Short term exposure limit category / Remarks   | Regulatory list |
|---|-----|-------------------|------------------------------|--|-----------------|
| Limestone<br>1317-65-3<br>[CALCIUM CARBONATE (INCLUDING LIMESTONE AND MARBLE), TOTAL DUST CONTAINING NO MORE THAN 1% CRYSTALLIZED SILICA AND NO ASBESTOS] |     | 10                | Time Weighted Average (TWA): |  | EG OEL          |
| Quartz (SiO <sub>2</sub> )<br>14808-60-7<br>[SILICA, CRYSTALLINE - QUARTZ, TOTAL DUST]  |     | 0,29              | Time Weighted Average (TWA): | The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation. | EG OEL          |
| Quartz (SiO <sub>2</sub> )<br>14808-60-7<br>[SILICA, CRYSTALLINE - QUARTZ, INHALABLE DUST]  |     | 0,098             | Time Weighted Average (TWA): | The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation. | EG OEL          |
| Quartz (SiO <sub>2</sub> )<br>14808-60-7<br>[SILICA, CRYSTALLINE - QUARTZ]  |     |                   | Time Weighted Average (TWA): | The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation. | EG OEL          |

**Occupational Exposure Limits**

Valid for  
Jordan

| Ingredient [Regulated substance]  | ppm | mg/m <sup>3</sup> | Value type                   | Short term exposure limit category / Remarks | Regulatory list |
|---|-----|-------------------|------------------------------|--|-----------------|
| Quartz (SiO <sub>2</sub> )<br>14808-60-7<br>[SILICA, CRYSTALLINE TYPE: QUARTZ, RESPIRABLE DUST] |     | 0,1               | Time Weighted Average (TWA): |  | JO TLV          |

**Occupational Exposure Limits**

Valid for  
Kuwait

| Ingredient [Regulated substance] | ppm | mg/m <sup>3</sup> | Value type | Short term exposure limit category / Remarks | Regulatory list |
|----------------------------------|-----|-------------------|------------|--|-----------------|
|----------------------------------|-----|-------------------|------------|--|-----------------|

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|  |  |     |   |         |         |
|--|--|-----|---|---------|---------|
| Limestone<br>1317-65-3<br>[MARBLE (CALCIUM CARBONATE),<br>INHALED] |  |     | Harmful Concentration for<br>risk to health and life: | Unknown | KW OEL  |
| Limestone<br>1317-65-3<br>[MARBLE (CALCIUM CARBONATE),<br>TOTAL]   |  |     | Harmful Concentration for<br>risk to health and life: | Unknown | KW OEL  |
| Limestone<br>1317-65-3<br>[MARBLE (CALCIUM CARBONATE),<br>TOTAL]   |  | 10  | Time Weighted Average<br>(TWA):                       |         | KW OEL  |
| Limestone<br>1317-65-3<br>[MARBLE (CALCIUM CARBONATE),<br>INHALED] |  | 5   | Time Weighted Average<br>(TWA):                       |         | KW OEL  |
| Quartz (SiO2)<br>14808-60-7<br>[QUARTZ]                            |  | 0,1 | Time Weighted Average<br>(TWA):                       |         | GCC TLV |
| Quartz (SiO2)<br>14808-60-7<br>[SILICA CRYSTALLINE, QUARTZ]        |  | 0,1 | Time Weighted Average<br>(TWA):                       |         | KW OEL  |
| Quartz (SiO2)<br>14808-60-7<br>[SILICA CRYSTALLINE, QUARTZ]        |  | 25  | Harmful Concentration for<br>risk to health and life: |         | KW OEL  |

**Occupational Exposure Limits**

Valid for  
Israel

| Ingredient [Regulated substance]   | ppm | mg/m <sup>3</sup> | Value type                      | Short term exposure limit<br>category / Remarks | Regulatory list |
|--|-----|-------------------|---------------------------------|---|-----------------|
| Limestone<br>1317-65-3<br>[Particles (insoluble or poorly soluble) not<br>otherwise specified, inhalable particles]  |     | 10                | Time Weighted Average<br>(TWA): |   | IL OEL          |
| Limestone<br>1317-65-3<br>[Particles (insoluble or poorly soluble) not<br>otherwise specified, respirable particles] |     | 3                 | Time Weighted Average<br>(TWA): |   | IL OEL          |
| Quartz (SiO2)<br>14808-60-7<br>[Silica, crystalline, respirable fraction]  |     | 0,025             | Time Weighted Average<br>(TWA): |   | IL OEL          |

**Occupational Exposure Limits**

Valid for  
Kenya

| Ingredient [Regulated substance]   | ppm | mg/m <sup>3</sup> | Value type                             | Short term exposure limit<br>category / Remarks | Regulatory list |
|--|-----|-------------------|--|---|-----------------|
| Limestone<br>1317-65-3<br>[MARBLE TOTAL INHALABLE DUST<br>LIMESTONE TOTAL INHALABLE DUST<br>CALCIUM CARBONATE TOTAL<br>INHALABLE DUST] |     | 10                | Time-weighted average<br>(TWA) OEL-RL: |   | KE OEL-RL       |
| Limestone<br>1317-65-3<br>[MARBLE RESPIRABLE DUST<br>CALCIUM CARBONATE RESPIRABLE<br>DUST<br>LIMESTONE RESPIRABLE DUST]                |     | 5                 | Time-weighted average<br>(TWA) OEL-RL: |   | KE OEL-RL       |
| Quartz (SiO2)<br>14808-60-7<br>[SILICA, CRYSTALLINE, RESPIRABLE<br>DUST]   |     | 0,4               | Time-weighted average<br>(TWA) OEL-CL: |   | KE OEL-CL       |
| Quartz (SiO2)  |     | 0,4               | Time-weighted average                  |   | KE OEL-RL       |

|  |  |  |               |  |  |
|--|--|--|---------------|--|--|
| 14808-60-7<br>[QUARTZ, CRYSTALLINE RESPIRABLE<br>DUST] |  |  | (TWA) OEL-RL: |  |  |
|--|--|--|---------------|--|--|

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Respiratory protection:

Not needed.

Hand protection:

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.

material thickness > 0.1 mm

Perforation time > 480 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

|  |  |
|--|--|
| Delivery form                          | liquid   |
| Colour                                 | Clear  |
| Odor                                   | Aromatic   |
| Physical state                         | liquid   |
| Melting point                          | Not available.   |
| Initial boiling point                  | Not available.   |
| Flammability                           | Currently under determination                            |
| Explosive limits                       | Currently under determination                            |
| Flash point                            | Not available.   |
| Auto-ignition temperature              | Currently under determination                            |
| Decomposition temperature              | Currently under determination                            |
| pH                                     | Currently under determination                            |
| Viscosity (kinematic)                  | Currently under determination                            |
| Solubility (qualitative)               | Currently under determination                            |
| Partition coefficient: n-octanol/water | Currently under determination                            |
| Vapour pressure                        | Currently under determination                            |
| Density<br>(30 °C (86 °F))             | 1,25 - 1,35 g/cm <sup>3</sup> no method / method unknown |
| Relative vapour density:               | Currently under determination                            |
| Particle characteristics               | Currently under determination                            |

**9.2. Other information**

No data available / Not applicable

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

None if used for intended purpose.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

None if used for intended purpose.

#### 10.5. Incompatible materials

None if used properly.

#### 10.6. Hazardous decomposition products

None known.

### SECTION 11: Toxicological information

#### General toxicological information:

Cross-reactions with other epoxide compounds possible.

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

##### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No.  | Value<br>type | Value         | Species | Method                                   |
|--|---------------|---------------|---------|--|
| 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane<br>1675-54-3 | LD50          | > 2.000 mg/kg | rat     | OECD Guideline 420 (Acute Oral Toxicity) |
| Quartz (SiO <sub>2</sub> ), <1%<br>respirable<br>14808-60-7                      | LD50          | > 5.050 mg/kg | rat     | not specified                            |

##### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No.  | Value<br>type | Value         | Species       | Method                                     |
|--|---------------|---------------|---------------|--|
| 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane<br>1675-54-3 | LD50          | > 2.000 mg/kg | rat           | OECD Guideline 402 (Acute Dermal Toxicity) |
| Quartz (SiO <sub>2</sub> ), <1%<br>respirable<br>14808-60-7                      | LD50          | > 2.000 mg/kg | not specified | not specified                              |

**Acute inhalative toxicity:**

No data available.

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Result     | Exposure<br>time | Species | Method             |
|---|------------|------------------|---------|--------------------|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane<br>1675-54-3 | irritating |                  |         | Weight of evidence |

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Result     | Exposure<br>time | Species | Method             |
|---|------------|------------------|---------|--------------------|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane<br>1675-54-3 | irritating |                  |         | Weight of evidence |

**Respiratory or skin sensitization:**

May cause an allergic skin reaction.

| Hazardous substances<br>CAS-No.   | Result      | Test type                          | Species | Method  |
|---|-------------|------------------------------------|---------|---|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane<br>1675-54-3 | sensitising | Mouse local lymphnode assay (LLNA) | mouse   | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No.   | Result   | Type of study /<br>Route of<br>administration    | Metabolic<br>activation /<br>Exposure time | Species | Method  |
|---|----------|--|--|---------|---|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane<br>1675-54-3 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without                           |         | OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay) |

**Carcinogenicity**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

| Hazardous components<br>CAS-No.   | Result           | Route of<br>application | Exposure<br>time /<br>Frequency<br>of treatment | Species | Sex         | Method   |
|---|------------------|-------------------------|---|---------|-------------|--|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane<br>1675-54-3 | not carcinogenic | dermal                  | 2 y<br>daily                                    | mouse   | male        | OECD Guideline 453<br>(Combined Chronic<br>Toxicity /<br>Carcinogenicity<br>Studies) |
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane<br>1675-54-3 | not carcinogenic | oral: gavage            | 2 y<br>daily                                    | rat     | male/female | OECD Guideline 453<br>(Combined Chronic<br>Toxicity /<br>Carcinogenicity<br>Studies) |

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No.   | Result / Value  | Test type                  | Route of<br>application | Species | Method   |
|---|---|----------------------------|-------------------------|---------|--|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane<br>1675-54-3 | NOAEL P $\geq$ 50 mg/kg<br>NOAEL F1 $\geq$ 750 mg/kg<br>NOAEL F2 $\geq$ 750 mg/kg | Two<br>generation<br>study | oral: gavage            | rat     | OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study) |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No.   | Result / Value | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method   |
|---|----------------|-------------------------|--|---------|--|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane<br>1675-54-3 | NOAEL 50 mg/kg | oral: gavage            | 14 w<br>daily                                | rat     | OECD Guideline 408<br>(Repeated Dose 90-Day<br>Oral Toxicity in Rodents) |

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

No data available.

## SECTION 12: Ecological information

**General ecological information:**

Do not empty into drains, soil or bodies of water.

**12.1. Toxicity****Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.  | Value<br>type | Value        | Exposure time | Species             | Method   |
|--|---------------|--------------|---------------|---------------------|--|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane<br>1675-54-3 | LC50          | 1,75 mg/l    | 96 h          | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Quartz (SiO <sub>2</sub> ), <1% respirable<br>14808-60-7                         | LC50          | > 1.000 mg/l | 96 h          | not specified       | OECD Guideline 203 (Fish, Acute Toxicity Test) |

**Toxicity (aquatic invertebrates):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.  | Value<br>type | Value        | Exposure time | Species       | Method   |
|--|---------------|--------------|---------------|---------------|--|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane<br>1675-54-3 | EC50          | 1,7 mg/l     | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Quartz (SiO <sub>2</sub> ), <1% respirable<br>14808-60-7                         | EC50          | > 1.000 mg/l | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

**Chronic toxicity (aquatic invertebrates):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.  | Value<br>type | Value    | Exposure time | Species       | Method                                      |
|--|---------------|----------|---------------|---------------|---|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane<br>1675-54-3 | NOEC          | 0,3 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

**Toxicity (Algae):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.  | Value<br>type | Value        | Exposure time | Species                   | Method  |
|--|---------------|--------------|---------------|---------------------------|---|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane<br>1675-54-3 | EC50          | > 11 mg/l    | 72 h          | Scenedesmus capricornutum | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane<br>1675-54-3 | NOEC          | 4,2 mg/l     | 72 h          | Scenedesmus capricornutum | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Quartz (SiO <sub>2</sub> ), <1% respirable<br>14808-60-7                         | EC50          | > 1.000 mg/l | 72 h          | not specified             | OECD Guideline 201 (Alga, Growth Inhibition Test) |

#### Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.  | Value<br>type | Value        | Exposure time | Species                      | Method   |
|--|---------------|--------------|---------------|------------------------------|--|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane<br>1675-54-3 | IC50          | > 100 mg/l   | 3 h           | activated sludge, industrial | other guideline:   |
| Quartz (SiO <sub>2</sub> ), <1% respirable<br>14808-60-7                         | EC0           | > 1.000 mg/l | 3 h           | not specified                | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

### 12.2. Persistence and degradability

#### Biodegradability (Screening Tests):

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.  | Result                     | Test type | Degradability | Exposure time | Method  |
|--|----------------------------|-----------|---------------|---------------|---|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane<br>1675-54-3 | not readily biodegradable. | aerobic   | 5 %           | 28 d          | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |

#### (Bio)degradability (Simulation Tests):

No data available.

### 12.3. Bioaccumulative potential

#### Partition Coefficient (octanol/water)

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.  | LogPow | Temperature | Method                                |
|--|--------|-------------|---------------------------------------|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane<br>1675-54-3 | 3,242  | 25 °C       | EU Method A.8 (Partition Coefficient) |

#### Bioconcentration factor (BCF)

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT / vPvB / PMT / vPvM assessment**

**PBT/vPvB**

The following table contains only substances that fulfill the criteria as PBT and/or vPvB.

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                          | PBT   | vPvB |
|--|---|------|
| Quartz (SiO <sub>2</sub> ), <1% respirable<br>14808-60-7 | According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances. |      |

**PMT/vPvM**

This mixture does not contain any substances that are assessed to be a PMT or vPvM.

Based on available data, the classification criteria are not met.

**12.6. Endocrine disrupting properties**

No data available.

**12.7. Other adverse effects**

No data available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

080409

**SECTION 14: Transport information**

**14.1. UN number or ID number**

|      |      |
|------|------|
| ADR  | 3082 |
| RID  | 3082 |
| ADN  | 3082 |
| IMDG | 3082 |
| IATA | 3082 |

**14.2. UN proper shipping name**

|      |   |
|------|---|
| ADR  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin) |
| RID  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin) |
| ADN  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin) |
| IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin) |
| IATA | Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin) |

**14.3. Transport hazard class(es)**

|      |   |
|------|---|
| ADR  | 9 |
| RID  | 9 |
| ADN  | 9 |
| IMDG | 9 |
| IATA | 9 |

**14.4. Packing group**

|      |     |
|------|-----|
| ADR  | III |
| RID  | III |
| ADN  | III |
| IMDG | III |
| IATA | III |

**14.5. Environmental hazards**

|      |                  |
|------|------------------|
| ADR  | not applicable   |
| RID  | not applicable   |
| ADN  | not applicable   |
| IMDG | Marine pollutant |
| IATA | not applicable   |

**14.6. Special precautions for user**

|     |                |
|-----|----------------|
| ADR | not applicable |
|     | Tunnelcode:    |

|      |                |
|------|----------------|
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG), NZ 4.3(10) may be applied, which can result in a deviation from the transport classification for packed goods.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information**

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

No information available:

|  |                |
|--|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590): | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):     | Not applicable |

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

- 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.

Abbreviations and acronyms:

- ADG(-Code): Australian Dangerous Goods (Code)
- ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
- ASTM: American Society for Testing and Materials
- ATE: acute toxicity estimate
- AS: Australian Standard
- AwSV: Ordinance on Installations for the Handling of Substances Hazardous to Water
- CAS: Chemical Abstract Service
- CLP: Regulation (EC) No 1272/2008
- CMR: cancerogenic, mutagenic or reprotoxic
- DIN: German Institute for Standardization
- ECx: Effective concentration (x% effective level)
- ECHA: European Chemicals Agency
- EC-Nummer: Substance number in the EU-inventories EINECS/ELINCS
- ECLTV: European community threshold limit value
- ED: Substance identified as having endocrine disrupting properties
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- EN : European Standard
- ENCS: Japanese chemical inventory
- EPA: US Environmental Protection Agency
- EU: European Union
- EU EXPLD1: Substance listed in Annex I, Reg (EC) No. 2019/1148
- EU EXPLD2: Substance listed in Annex II, Reg (EC) No. 2019/1148
- EWC: European Waste Catalogue
- GHS: Globally Harmonised System for Classification and Labelling of Chemicals
- GLP: Good Laboratory Practice
- HSNO: Hazardous Substances and New Organisms
- IARC: International Agency for Research of Cancer
- IATA: International Air Transport Association
- IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IC50: half maximal inhibitory concentration
- ICAO: International Civil Aviation Organization
- IMDG-Code: International Maritime Code for Dangerous Goods
- IMO: International Maritime Organization
- ISO: International Standardization Organisation
- LC50: Median lethal concentration
- LD50: Median lethal dose
- MARPOL: International Convention for the Prevention of Marine Pollution from Ships
- n.o.s.: not otherwise specified
- NO(A)EC: No (adverse) effect concentration
- NO(A)EL: No (adverse) effect level
- NZS: New Zealand Standard
- OECD: Organisation for Economic Co-operation and Development
- OEL: Occupational Exposure Limit
- OPPT: US EPA Office of Pollution Prevention and Toxics
- OPPTS: US EPA Office of Prevention, Pesticides and Toxic Substances
- PBT: Persistent, bioaccumulative, toxic
- PMT: Persistent, mobile and toxic
- (Q)SAR: (Quantitative) structure-activity relationship
- REACH: Regulation (EC) No. 1907/2006
- RID: Regulations concerning the International Transport of Dangerous Goods by Rail
- SADT: Self Accelerating Decomposition Temperature

SDS: Safety Data Sheet  
STOT: Specific Target Organ Toxicity  
STOT SE: Specific Target Organ Toxicity - single exposure  
STOT RE: Specific Target Organ Toxicity - repeated exposure  
SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons  
SVHC: Substance of very high concern (REACH Candidate List)  
TRGS: German Technical Rules for hazardous substances  
UN: United Nations  
VOC: Volatile Organic Compound  
814.018 VOC Reg CH: Swiss Ordinance 814.018 on the Incentive Tax on Volatile Organic Compounds  
vPvB: Very persistent, very bioaccumulative  
vPvM: Very persistent and very mobile  
VwVwS: Administrative Regulation on Substances Hazardous to Waters  
WGK: Water hazard class

**Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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Product is intended for professional use.

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