

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

| Product name: |  |  | Ceramiur<br>Ceramiur | <br>• |  |  |
|---------------|--|--|----------------------|-------|--|--|
|               |  |  |                      |       |  |  |

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

Product use: Repair material

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

| Manufacturer / Supplier:          | MultiMetall Reiner Schulze e.K.<br>Spenglerstraße 3<br>D-41749 Viersen<br>Phone: +49 (0) 2162/97009-0<br>Fax: +49 (0) 2162/97009-11<br>Email: <u>info@polymermetal.com</u> |
|-----------------------------------|--|
| Responsibility Safety data sheet: | Email: msds@polymermetal.com   |

#### 1.4. Emergency telephone number

| Emergency contact number: | Phone: +49 (0) 2162/97009-0 |
|---------------------------|-----------------------------|
|---------------------------|-----------------------------|

## SECTION 2: HAZARDS IDENTIFICATION

## 2.1. Classification of the substance or mixture

Product definition:

Mixture

Classification according to Directive (EC) No. 1272/2008 (CLP):

| Eye Irrit.      | Category 2 | H319 Causes serious eye irritation.                   |
|-----------------|------------|---|
| Skin Irrit.     | Category 2 | H315 Causes skin irritation.                          |
| Skin Sens.      | Category 1 | H317 May cause an allergic skin reaction.             |
| Aquatic Chronic | Category 2 | H411 Toxic to aquatic life with long-lasting effects. |

Classification according to Directive No. 67/548/EWG or 1999/45/EC:

Xi, R36/38 R43 N, R51/53

The full text of the R-phrases declared above can be found in Section 16.

## 2.2. Label elements

Labelling according to Directive (EEC) No. 1272/2008 (CLP):

Hazard pictograms:





Signal word:

Hazard statements:

Warning

H319 Causes serious eye irritation. H315 Causes skin irritation. H317 May cause an allergic skin reaction.

|   | Safety Data Sheet 1907/2006 (REACH) Annex II Print date<br>29.09.202   |                              |  |
|---|--|------------------------------|--|
| Multi Metall  | Ceramium   | Revision Date:<br>29.09.2021 |  |
| Wulli Wielan  |  | Page 2 of 9                  |  |
|   | H411 Toxic to aquatic life with long-lasting effects.  |                              |  |
| Precautionary statements:   | P280 Wear protective gloves / protective clothing / eye pro<br>P302+352: IF ON SKIN: Wash with plenty of water/soap. | tection / face protection.   |  |
| Hazardous ingredients (labelling): Reaction product Bisphenol A epoxy resins, num<br>Bisphenol F epoxy resin<br>1,6-Bis(2,3-epoxypropoxy)hexane |  | ge MW <= 700                 |  |
| Supplemental label elements:  | Contains epoxy constituents. See information supplied by t   | he manufacturer.             |  |

## 2.3. Other hazards

Not available.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Not applicable

## 3.2. Mixtures

| Hazardous components  | Identifiers  | %       | Classification by<br>67/548/EEC   | Classification by<br>(EC) Nr. 1272/2008 (CLP)  |
|---|--|---------|---|--|
| Reaction product Bisphenol<br>A epoxy resins, number av-<br>erage MW <= 700 | CAS: 25068-38-6<br>REACH-R.No 01-2119456619-26-xxx<br>EC-No.: 500-033-5<br>Index: 603-074-00-8 | 10 - 17 | Irritant, Xi, R36/38<br>Sensitising, R43<br>Dangerous for the environ-<br>ment, N, R51<br>Dangerous for the environ-<br>ment, R53 | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 |
| Bisphenol F epoxy resin   | CAS: 9003-36-5<br>REACH-R.No 01-211945392-40-xxx<br>EC-No.: 500-006-8<br>Index: -              | 4 - 10  | Irritant, Xi, R38<br>Sensitising, R43<br>Dangerous for the environ-<br>ment, N, R51<br>Dangerous for the environ-<br>ment, R53    | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411                       |
| 1,6-Bis(2,3-epoxypro-<br>poxy)hexane  | CAS: 16096-31-4<br>REACH-R.No 01-2119463471-41-xxx<br>EC-No.: 240-260-4<br>Index: -            | 0,2 - 5 | Irritant, Xi, R36/38<br>Sensitising, R43<br>Dangerous for the environ-<br>ment, R52<br>Dangerous for the environ-<br>ment, R53    | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412 |

The full text of the hazard notes declared above can be found in Section 16.

# SECTION 4: FIRST AID MEASURES

## 4.1. Description of first aid measures

| Seek medical advice. |  |
|----------------------|--|
| Inhalation:          | Plenty of fresh air and consult a doctor as a precaution.  |
| Skin contact:        | Wash off immediately with water and soap and rinse thoroughly. After continuous skin irritation, consult a doctor. |
| Eye contact:         | Flush eye with open eyelids under running water for several minutes. Seek medical advice immediately.              |
| Ingestion:           | Rinse mouth and then drink plenty of water. Instantly call for medical help. Do not induce vomiting.               |

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

No data available.

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



No data available.

## SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media: CO2, extinguishing powder, water mist or alcohol-resistant foam.

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

Hazardous combustion products: carbon monoxide, carbon dioxide and sulphur dioxide

#### 5.3. Advice for firefighters

Wear personal protective clothing and self-contained breathing apparatus (SCBA). Contaminated extinguishing water must be disposed of in accordance with official regulations.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Wear suitable protective clothing, gloves and glasses during work. Provide adequate ventilation. Avoid contact with eyes, skin and clothes.

#### 6.2. Environmental precautions

Do not allow to enter drainage system or waters. Do not allow to enter the ground/soil.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

#### 6.4. Reference to other sections

See section 8 for information given on personal protective equipment. Dispose contaminated material as waste according to section 13.

## SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Provide adequate ventilation. Avoid contact with eyes and skin. Do not eat, drink and smoke while working. Wash hands before breaks.

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

Prevent any penetration into the ground. Store in original containers in a cool and dry place.

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

No further relevant information available.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

No exposure limit value known.

#### 8.2. Exposure controls

Engineering measures:

Provide adequate ventilation, especially in closed rooms.



| Hygiene measures:       | Remove contaminated and saturated clothes immediately. Wash hands before breaks and after finishing work. Avoid contact with eyes and skin.   |
|-------------------------|---|
| Respiratory protection: | In case of inadequate ventilation, wear respiratory protection.   |
| Hand protection:        | Gloves out of synthetic material (EN 374)<br>Material of gloves:<br>Butyl rubber (recommended minimum strength 0,7 mm)<br>Nitrile rubber (recommended minimum strength 0,7 mm)<br>Find out the exact break through time from the manufacturer of the protective gloves<br>and comply with it. |
| Eye protection:         | Sealed safety glasses (EN 166)  |
| Body protection:        | Protective clothing   |

| Ingredient<br>Type                      | Exposure            | Value / Unit                           | Population  | Effects                     |
|---|---------------------|--|-------------|-----------------------------|
| .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Expectate           | value, entr                            | 1 opulation | Enote                       |
| Reaction                                | product Bisphenol A | A epoxy resins, number average M       | W <= 700    |                             |
| DNEL                                    | Dermal              | 8,33 mg/kg bw/day                      | Worker      | Short term systemic effects |
| DNEL                                    | Dermal              | 8,3 mg/kg bw/day                       | Worker      | Long term systemic effects  |
| DNEL                                    | Dermal              | 3,571 mg/kg bw/day                     | Consumer    | Short term systemic effects |
| DNEL                                    | Inhalation          | 12,25 mg/m3                            | Worker      | Short term systemic effects |
| DNEL                                    | Inhalation          | 12,3 mg/m3                             | Worker      | Long term systemic effects  |
| DNEL                                    | Inhalation          | 0,75 mg/m3                             | Consumer    | Long term systemic effects  |
| DNEL                                    | Inhalation          | 0,75 mg/m3                             | Consumer    | Short term systemic effects |
| DNEL                                    | Oral                | 0,75 mg/kg bw/day                      | Consumer    | Short term systemic effects |
| DNEL                                    | Oral                | 0,75 mg/kg bw/day                      | Consumer    | Long term systemic effects  |
|   |                     |  |             | <u> </u>                    |
|   | F epoxy resin       |  |             |                             |
| DNEL                                    | Dermal              | 0,0083 mg/cm2                          | Worker      | Short term local effects    |
| DNEL                                    | Dermal              | 104,15 mg/kg bw/day                    | Worker      | Long term systemic effects  |
| DNEL                                    | Dermal              | 62,5 mg/kg bw/day                      | Consumer    | Long term systemic effects  |
| DNEL                                    | Inhalation          | 29,39 mg/m3                            | Worker      | Long term systemic effects  |
| DNEL                                    | Inhalation          | 8,7 mg/m3                              | Consumer    | Long term systemic effects  |
| DNEL                                    | Oral                | 6,25 mg/kg bw/day                      | Consumer    | Long term systemic effects  |
| 1 6 Bic/2                               | 3-epoxypropoxy)he   | xano.                                  |             |                             |
| <u>1,0-DIS(2,</u><br>DNEL               | Dermal              | 0.0226 mg/cm2                          | Worker      | Short term local effects    |
| DNEL                                    | Dermal              | 2,8 mg/kg bw/day                       | Worker      | Long term systemic effects  |
| DNEL                                    | Dermal              | 0,0226 mg/cm2                          | Worker      | Long term local effects     |
| DNEL                                    | Dermal              | 1,7 mg/kg bw/day                       | Consumer    | Short term systemic effects |
|   | Dermal              | 1,7 mg/kg bw/day                       | Consumer    | Long term systemic effects  |
|   | Dermal              | 0,0136 mg/cm2                          | Consumer    | Short term local effects    |
| DNEL                                    | Dermal              | 0,0136 mg/cm2                          | Consumer    | Long term local effects     |
|   | Inhalation          | 4,98 mg/m3                             | Worker      | Short term systemic effects |
|   | Inhalation          | 4,96 mg/m3                             | Worker      | Long term systemic effects  |
|   | Inhalation          | 0,44 mg/m3                             | Worker      | Long term local effects     |
|   | Inhalation          | 2,9 mg/m3                              | Consumer    | Long term systemic effects  |
|   | Inhalation          | 0,27 mg/m3                             | Consumer    | Long term local effects     |
| DNEL                                    | Inhalation          | 2,9 mg/m3                              | Consumer    | Short term systemic effects |
| DNEL                                    | Oral                | 2,9 mg/m3<br>0.83 mg/kg bw/day         | Consumer    | Short term systemic effects |
| DNEL<br>DNEL                            | Oral                | 0,83 mg/kg bw/day<br>0,83 mg/kg bw/day | Consumer    | <b>,</b>                    |
|   |                     | 0,03 mg/kg bw/uay                      | Consumer    | Long term systemic effects  |
| ngredient                               |                     | lotoil                                 |             | Value / Lipit               |
| ype                                     | Compartment d       | letall                                 |             | Value / Unit                |

| Reaction pro | oduct Bisphenol A epoxy resins, number average MW <= 700 |               |
|--------------|--|---------------|
| PNEC         | Fresh water  | 0,003 mg/l    |
| PNEC         | Marine water   | 0,0003 mg/l   |
| PNEC         | Water (temporary intermittent release)                   | 0,018 mg/l    |
| PNEC         | Sewage treatment plant                                   | 10 mg/l       |
| PNEC         | Sediment (Fresh water)                                   | 0,5 mg/kg dw  |
| PNEC         | Sediment (Marine water)                                  | 0,5 mg/kg dw  |
| PNEC         | Soil   | 0,05 mg/kg dw |
| PNEC         | Oral (Food)  | 11 mg/kg      |
|              |  |               |
|              | epoxy resin  |               |
| PNEC         | Fresh water  | 0,003 mg/l    |
| PNEC         | Marine water   | 0,0003 mg/l   |
| PNEC         | Water (temporary intermittent release)                   | 0,0254 mg/l   |



PNEC

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PNEC Sewage treatment plant PNEC Sediment (Fresh water) PNEC Sediment (Marine water) PNEC Soil 1,6-Bis(2,3-epoxypropoxy)hexane PNEC Fresh water PNEC Marine water PNEC Water (temporary intermittent release) PNEC Sewage treatment plant PNEC Sediment (Fresh water) PNEC Sediment (Marine water)

10 mg/l 0294 mg/kg dw 0,0294 mg/kg dw 0,237 mg/kg dw

0,0115 mg/l 0,00115 mg/l 0,115 mg/l 1 mg/l 0,283 mg/kg dw 0,0283 mg/kg dw 0,223 mg/kg dw

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Soil

## 9.1. Information on basic physical and chemical properties

| Physical state:                         | pasty (Prod-# 601)<br>liquid (Prod-# 602)        |
|---|--|
| Colour:                                 | grey   |
| Odour:                                  | poor   |
| Odour threshold:                        | not available                                    |
| Melting / Freezing point:               | not available                                    |
| Boiling point / boiling range:          | > 200 °C   |
| Flash point:                            | > 150 °C (ISO 2719 (Pensky-Martens, closed cup)) |
| Evaporation rate:                       | not available                                    |
| Flammability (solid, gas):              | not available                                    |
| Lower explosion limit:                  | not available                                    |
| Upper explosion limit:                  | not available                                    |
| Vapour pressure:                        | < 0,11 hPa (20 °C)                               |
| Vapour density:                         | not available                                    |
| Density:                                | 2,2 g/cm3 (at 20 °C)                             |
| Water solubility:                       | not mixable                                      |
| Partition coefficient: n-octanol/water: | not available                                    |
| Auto-ignition temperature:              | not available                                    |
| Decomposition temperature:              | not available                                    |
| Explosive properties:                   | Product is not potentially explosive.            |
| Oxidising properties:                   | none   |
|   |  |

### 9.2. Other information

No data available.

#### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

No special data available.

### 10.2. Chemical stability

The product is stable.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known.

#### 10.4. Conditions to avoid

None known.

## 10.5. Incompatible materials

Strong acids, strong bases, strong oxidants.



#### 10.6. Hazardous decomposition products

Carbon dioxides.

# SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

| Ingredient                                |                         |               |   |
|---|-------------------------|---------------|---|
| Acute effects                             | Endpoint / Value / Unit | Species       | Method /  |
|   |                         |               | Result  |
| Departies and dest Disable and Alexandres |                         | - 700         |   |
| Reaction product Bisphenol A epoxy resi   | LD50 > 2000 mg/kg       |               |   |
| Oral<br>Dermal                            |                         | Rat           |   |
|   | LD50 > 2000 mg/kg       | Rat           |   |
| Irritant and corrosive effects skin       |                         | Rabbit        | OECD 404 (Acute Dermal Irritation/Corrosion) /        |
|   |                         | <b>B</b> 11.1 | Irritating  |
| Serious eye damage / eye irritation       |                         | Rabbit        | OECD 405 (Acute Eye irritation/Corrosion) /           |
|   |                         |               | Irritating  |
| Respiratory or skin sensitization         |                         | Mouse         | OECD 429 (Skin Sensitisation - Local Lymph Node As-   |
|   |                         |               | say) /  |
|   |                         |               | Sensitizing   |
| Mutagenicity                              |                         |               | OECD 471 (Bacterial Reverse Mutation Test) /          |
|   |                         |               | Positive  |
| Carcinogenicity                           |                         | Rat           | OECD 453 (Combined Chronis Toxicity/Carcinogenic) /   |
| 5 ,                                       |                         |               | Negative  |
| Reproduction toxicity                     | NOEL 540 mg/kg          | Rat           | OECD 416 (Two-generation Reproduction Toxicity Study) |
|   |                         |               |   |
| Bisphenol F epoxy resin                   |                         |               |   |
| Oral                                      | LD50 > 5000 mg/kg       | Rat           | OECD 401 (Acute Oral Toxicity)                        |
| Dermal                                    | LD50 > 2000 mg/kg       | Rabbit        | OECD 402 (Acute Dermal Toxicity)                      |
| Irritant and corrosive effects skin       | 5.5                     | Rabbit        | OECD 404 (Acute Dermal Irritation/Corrosion) /        |
|   |                         | 1100011       | Irritating  |
| Serious eye damage / eye irritation       |                         | Rabbit        | OECD 405 (Acute Eye irritation/Corrosion) /           |
| conous eye damage / eye imation           |                         | Rubbit        | Not irritating  |
| Respiratory or skin sensitization         |                         | Guinea pig    | OECD 429 (Skin Sensitisation - Local Lymph Node As-   |
|   |                         | Ounica pig    | say) /  |
|   |                         |               | Sensitizing   |
| Carcinogenicity                           | NOAEL 800 mg/kg/d       | Mouse         | Not sensitizing                                       |
|   |                         |               | 0   |
| Reproduction toxicity                     | NOEL 750 mg/kg/d        | Rat           | OECD 416 (Two-generation Reproduction Toxicity Study) |
| Aspiration danger                         |                         | D.1           | No  |
| Specific traget organ toxicity – repeated | NOAEL 250 mg/kg/d       | Rat           | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in |
| exposure (STOT-RE), oral                  |                         |               | Rodents)  |
| 1.6-Bis(2.3-epoxypropoxy)hexane           |                         |               |   |
| Oral                                      | LDE0 2000 mg/kg         | Rat           | OECD 401 (Aguta Oral Taviaity)                        |
|   | LD50 2900 mg/kg         |               | OECD 401 (Acute Oral Toxicity)                        |
| Dermal                                    | LD50 > 2000  mg/kg      | Rat           | OECD 402 (Acute Dermal Toxicity)                      |
| Inhalative                                | LC50 > 0,035 mg/l/4h    |               | Highest reachable concentration                       |
| Irritant and corrosive effects skin       |                         |               | Irritating  |
| Serious eye damage / eye irritation       |                         |               | Irritating  |
| Respiratory or skin sensitization         |                         | Mouse         | OECD 429 (Skin Sensitisation - Local Lymph Node As-   |
|   |                         |               | say) /  |
|   |                         |               | Sensitizing (skin)                                    |
|   |                         |               |   |

## SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

| Endpoint/Time/Value/Unit         | Species  | Method  |
|----------------------------------|--|---|
|                                  |  |   |
| A epoxy resins, number average I | <u>MW &lt;= 700</u>  |   |
| LC50 / 96h / 1,5 mg/l            | Salmo gairdneri  | OECD 203 (Fish, Acute Toxicity Test)  |
| EC50 / 48h / 1,1 mg/l            | C C  | OECD 202 (Daphnia sp. Acute Immobilisation Test)  |
|                                  |  | ,   |
| LL50 / 96h / > 1000 ma/l         | Oncorhynschus mykiss   | OECD 203 (Fish, Acute Toxicity Test)  |
| NOEC/NOEL / 21d / 0,3 mg/l       | Daphnia magna  | OECD 211 (Daphnia magna Reproduction Test)  |
| EL50 / 48h / > 1000 mg/l         | Daphnia  | OECD 202 (Daphnia sp. Acute Immobilisation  |
|                                  |  | Test)   |
|                                  | A epoxy resins, number average I<br>LC50 / 96h / 1,5 mg/l<br>EC50 / 48h / 1,1 mg/l<br>LL50 / 96h / > 1000 mg/l<br>NOEC/NOEL / 21d / 0,3 mg/l | A epoxy resins, number average MW <= 700<br>LC50 / 96h / 1,5 mg/l Salmo gairdneri<br>EC50 / 48h / 1,1 mg/l<br>LL50 / 96h / > 1000 mg/l Oncorhynschus mykiss<br>NOEC/NOEL / 21d / 0,3 mg/l Daphnia magna |



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Toxicity, AlgaeEC50 / 72h / 1,8 mg/lPseudokirchneriella sub-<br/>capitataOECD 201 (Alga, Growth Inhibition Test)1.6-Bis(2,3-epoxypropoxy)hexane<br/>Toxicity, FishLC50 / 96h / 30 mg/lOncorhynschus mykiss<br/>Daphnia magnaOECD 203 (Fish, Acute Toxicity Test)Toxicity, DaphniaEC50 / 48h / 47 mg/lDaphnia magnaOECD 203 (Fish, Acute Toxicity Test)

## 12.2. Persistence and degradability

| Ingredient |   | Persistence and degradability |                                      |  |
|------------|---|-------------------------------|--------------------------------------|--|
|            |   | Time/Value/Unit               | Method                               |  |
|            |   |                               |                                      |  |
|            | Reaction product Bisphenol A epoxy resins, number average MW <= 700 | 28d / 5%                      | OECD 301 F (Ready Biodegradability - |  |
|            |   |                               | Manometric Respirometry Test)        |  |
|            | 1,6-Bis(2,3-epoxypropoxy)hexane                                     | 28d / 47%                     | OECD 301 D (Ready Biodegradability - |  |
|            |   |                               | Closed Bottle Test)                  |  |

#### 12.3. Bioaccumulative potential

| Ingredient  | Bioaccumulative potential / Endpoint / Value |
|---|--|
| Reaction product Bisphenol A epoxy resins, number average MW <= 700 | Log Pow / 3,8                                |
| Bisphenol F epoxy resin   | BCF / 150                                    |
| 1,6-Bis(2,3-epoxypropoxy)hexane                                     | BCF / 1,6                                    |

#### 12.4. Mobility in soil

| Ingredient                      | Mobility in soil notes   |
|---------------------------------|--|
|                                 | Les Kes 2 CE OFOD 404 (Estimation of the Advantion Osoffi  |
| Bisphenol F epoxy resin         | Log Koc 3,65 OECD 121 (Estimation of the Adsoption Coeffi-<br>cient (KOC) on Soil and on Sewage Sludge using HPLC) |
| 1,6-Bis(2,3-epoxypropoxy)hexane | Log Koc 2,98 OECD 121 (Estimation of the Adsoption Coeffi-   |
|                                 | cient (KOC) on Soil and on Sewage Sludge using HPLC)   |

#### 12.5. Results of PBT and vPvB assessment

| 6 Other advarge offects                                    |  |
|--|--|
| Bisphenol F epoxy resin<br>1,6-Bis(2,3-epoxypropoxy)hexane | does not meet the PBT criteria<br>does not meet the PBT criteria |
|  |  |
| Ingredient   | Results of PBT and vPvB assessment                               |
|  |  |

# 12.6. Other adverse effects

No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Carry out the disposal of products and its containers in a safe way. Follow regional local authority regulations.

Waste code (EG) 080409

The waste code is just a recommendation for the user.

#### SECTION 14: TRANSPORT INFORMATION

#### 14.1. UN number

Not classified; no DGR in respect of transport provisions

#### 14.2. UN proper shipping name

Not applicable

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



Not applicable

# 14.4. Packing group

Not applicable

## 14.5. Environmental hazards

Not applicable

## 14.6. Special precautions for user

None known

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

## SECTION 15: REGULATORY INFORMATION

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

Consider employment restriction for adolescents and employment medical provisions.

| VOC-content:                         | 0%      |
|--------------------------------------|---------|
| Water hazard class (Germany):        | 2 VwVwS |
| Storing class according to TRGS 510: | 10-13   |

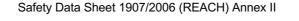
#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

## SECTION 16: OTHER INFORMATION

Method for the deduction of the classification according to Directive (EC) No. 1272/2008 (CLP):

| Classification:   | Statement:  |
|---|---|
| Eye Irrit., 2, H319   | Calculation method  |
| Skin Irrit., 2, H315  | Calculation method  |
| Skin Sens., 1, H317   | Calculation method  |
| Aquatic Chronic, 2, H411  | Calculation method  |
| Full text of classifications (CLP):<br>Eye Irritation, 2<br>Skin Irritation, 2<br>Skin Sensitisation, 1<br>Aquatic Chronic, 2 | Eye irritation - Category 2<br>Irritant effects to skin - Category 2<br>Sensitisation of skin - Category 1<br>Chronic aquatic toxicity - Category 2             |
| Full text of shortened H-statements (CLP)   | ):  |
| 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.  |
| H412  | Harmful to aquatic life with long-lasting effects.  |
| Full text of shortened R-statements:<br>R36/38<br>R38<br>R43<br>R51<br>R52  | Irritating to eyes and skin.<br>Irritating to skin.<br>May cause sensitisation by skin contact.<br>Toxic to aquatic organisms.<br>Harmful to aquatic organisms. |



R53 R51/53 May cause long-term adverse effects in the aquatic environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.