



ORTHO

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

## Epoxidharz Plus

Material number REF 70.806.001.XXA

Revision date: 30.7.2026  
Version: 2.0  
Replaces version: 1.1  
Language: en-DE  
Date of print: 4.8.2026

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

### 1.1 Product identifier

Trade name: Epoxidharz Plus

This safety data sheet pertains to the following products:

70.806.001.01 = Epoxy Resin Plus

70.806.001.11 = Epoxy Resin Plus

UFI: K110-801Y-U00V-S202

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

General use: Resin component.  
Reserved for industrial and professional use.

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

Company name: Wilhelm Julius Teufel GmbH  
Orthopädiotechnische Medizinprodukte

Street/POB-No.: Robert-Bosch-Straße 15

Postcode, city: 73117 Wangen / Göppingen  
Germany

WWW: [www.teufel-international.com](http://www.teufel-international.com)

Email: [info@teufel-international.com](mailto:info@teufel-international.com)

Telephone: +49 (0)7161 15684-0

Telefax: +49 (0)7161 15684-222

Department responsible for information:  
Telephone: +49 (0)7161 15684-0, Email: [info@teufel-international.com](mailto:info@teufel-international.com)

### 1.4 Emergency telephone number

GIZ-Nord, Germany, Telephone: +49 (0)551-19240

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP)

|                         |                                                  |
|-------------------------|--------------------------------------------------|
| Skin Irrit. 2; H315     | Causes skin irritation.                          |
| Eye Irrit. 2; H319      | Causes serious eye irritation.                   |
| Skin Sens. 1; H317      | May cause an allergic skin reaction.             |
| Repr. 1B; H360F         | May damage fertility.                            |
| Aquatic Chronic 2; H411 | Toxic to aquatic life with long lasting effects. |



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**2.2 Label elements****Labelling (CLP)**

Signal word:

**Danger**

Hazard statements:

|       |                                                  |
|-------|--------------------------------------------------|
| H315  | Causes skin irritation.                          |
| H317  | May cause an allergic skin reaction.             |
| H319  | Causes serious eye irritation.                   |
| H360F | May damage fertility.                            |
| H411  | Toxic to aquatic life with long lasting effects. |

Precautionary statements:

|           |                                                            |
|-----------|------------------------------------------------------------|
| P201      | Obtain special instructions before use.                    |
| P261      | Avoid breathing mist/vapours/spray.                        |
| P273      | Avoid release to the environment.                          |
| P280      | Wear protective gloves/protective clothing/eye protection. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention.     |
| P362+P364 | Take off contaminated clothing and wash it before reuse.   |
| P391      | Collect spillage.                                          |
| P405      | Store locked up.                                           |

**Special labelling**

Text for labelling:

EUH205 Contains epoxy constituents. May produce an allergic reaction.  
Restricted to professional users.  
Contains:  
Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight  $\leq 700$ )  
Reaction products of 1,6-hexanediol with chloromethyloxirane  
Bisphenol F Epoxy Resin  
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs

**2.3 Other hazards**

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher.  
The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

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

3.1 Substances: not applicable

**3.2 Mixtures**

Chemical characterisation: Mixture containing the substances listed below:



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Hazardous ingredients:

| Identifiers                                                          | Designation<br>Classification                                                                                                                                                                                                                                                                                          | Content   |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| EC No. 500-033-5<br>CAS 25068-38-6                                   | Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight $\leq 700$ )<br>Skin Irrit. 2; H315. Eye Irrit. 2; H319.<br>Skin Sens. 1; H317. Aquatic Chronic 2; H411.<br>Specific concentration limits (SCL):<br>Skin Irrit. 2; H315: $C \geq 5\%$<br>Eye Irrit. 2; H319: $C \geq 5\%$ | 50 - 75 % |
| REACH 01-2119463471-41-xxxx<br>list no. 618-939-5<br>CAS 933999-84-9 | Reaction products of 1,6-hexanediol with chloromethyloxirane<br>Skin Irrit. 2; H315. Eye Irrit. 2; H319.<br>Skin Sens. 1; H317. Repr. 1B; H360F.<br>Aquatic Chronic 3; H412.                                                                                                                                           | 10 - 25 % |
| EC No. 500-006-8<br>CAS 9003-36-5                                    | Bisphenol F Epoxy Resin<br>Skin Irrit. 2; H315. Skin Sens. 1; H317.<br>Aquatic Chronic 2; H411.                                                                                                                                                                                                                        | < 10 %    |
| REACH 01-2119485289-22-xxxx<br>EC No. 271-846-8<br>CAS 68609-97-2    | Oxirane, mono[(C12-14-alkyloxy)methyl] derivs<br>Skin Irrit. 2; H315. Skin Sens. 1; H317. Repr. 1B; H360F.                                                                                                                                                                                                             | < 10 %    |

Full text of H- and EUH-statements: see section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

|                         |                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General information:    | If medical advice is needed, have product container or label at hand.<br>Take off contaminated clothing and wash it before reuse.                                                                            |
| In case of inhalation:  | Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical treatment in case of troubles.                                                                                           |
| Following skin contact: | After contact with skin, wash immediately with soap and plenty of water. Seek medical attention.                                                                                                             |
| After eye contact:      | Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist. |
| After swallowing:       | Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately get medical attention.                                         |

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

May cause an allergic skin reaction. Causes skin irritation. Causes serious eye irritation.  
Mist or vapours released by overheating may cause irritation of the respiratory tract.

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

Treat symptomatically.  
Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.



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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, Extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

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

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: Nitrogen oxides, carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Do not breathe fumes.

Use water spray jet to suppress vapours.

Cool endangered containers with water spray and, if possible, remove from danger zone.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

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

Avoid exposure. Avoid breathing mist/vapours/spray. Avoid contact with the substance.

If possible, eliminate leakage. Provide adequate ventilation.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

### 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

Inform the relevant authorities in case of leakage into sewers, aquatic environment or soil.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

Additional information:

Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.



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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Obtain special instructions before use. Avoid contact during pregnancy/while nursing. Provide adequate ventilation, and local exhaust as needed. Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.  
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.  
Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Keep away from heat.  
When handling larger quantities, take precautionary measures against electrostatic charging.

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

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.  
Keep container dry. Keep only in the original container.  
Protect from heat and direct sunlight.

storage temperature/storage stability/Maximum storage period (time): 20 - 25 °C/1 year

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.  
Do not store together with: Oxidizing agents, organic nitro compounds, amines, mercaptan, acids, phenols, anhydrides, Sodium hydroxide

Storage class:

6.1C = Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.



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DNEL/DMEL:

Information about Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight  $\leq 700$ ) (CAS 25068-38-6):

DNEL, workers, inhalative, systemic, long-term: 12,25 mg/m<sup>3</sup>

DNEL, workers, inhalative, systemic, short-term: 12,25 mg/m<sup>3</sup>

DNEL, workers, dermal, systemic, long-term: 8,33 mg/kg bw/d

DNEL, workers, dermal, systemic, short-term: 8,33 mg/kg bw/d

Information about Reaction products of 1,6-hexanediol with chloromethyloxirane (CAS 933999-84-9):

DNEL, workers, inhalative, systemic, long-term: 3,88 mg/m<sup>3</sup>

DNEL, workers, inhalative, systemic, short-term: 3,88 mg/m<sup>3</sup>

DNEL, workers, inhalative, local, long-term: 0,44 mg/m<sup>3</sup>

DNEL, workers, dermal, systemic, long-term: 2,2 mg/kg bw/d

DNEL, workers, dermal, local, long-term: 22,6 µg/cm<sup>2</sup>

DNEL, workers, dermal, local, short-term: 22,6 µg/cm<sup>2</sup>

Information about Bisphenol F Epoxy Resin (CAS 9003-36-5):

DNEL, workers, inhalative, systemic, long-term: 29,39 mg/m<sup>3</sup>

DNEL, workers, dermal, systemic, long-term: 104,2 mg/kg bw/d

Information about Oxirane, mono[(C12-14-alkyloxy)methyl] derivs (CAS 68609-97-2):

DNEL, workers, inhalative, systemic, long-term: 0,49 mg/m<sup>3</sup>

DNEL, workers, dermal, systemic, long-term: 0,75 mg/kg bw/d



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PNEC: Information about Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight  $\leq 700$ ) (CAS 25068-38-6):  
PNEC, water (freshwater): 0,006 mg/L  
PNEC, water (marine water): 0,001 mg/L  
PNEC, sewage treatment plant: 10 mg/L  
PNEC, sediment (freshwater): 0,996 mg/kg dw  
PNEC, sediment (marine water): 0,1 mg/kg dw  
PNEC, soil: 0,196 mg/kg dw

Information about Reaction products of 1,6-hexanediol with chloromethyloxirane (CAS 933999-84-9):  
PNEC, water (freshwater): 0,111 mg/L  
PNEC, water (marine water): 0,011 mg/L  
PNEC, sewage treatment plant: 1 mg/L  
PNEC, sediment (freshwater): 2,29 mg/kg dw  
PNEC, sediment (marine water): 0,229 mg/kg dw  
PNEC, soil: 1,8 mg/kg dw

Information about Bisphenol F Epoxy Resin (CAS 9003-36-5):  
PNEC, water (freshwater): 0,003 mg/L  
PNEC, water (marine water): 0 mg/L  
PNEC, sewage treatment plant: 10 mg/L  
PNEC, sediment (freshwater): 0,294 mg/kg dw  
PNEC, sediment (marine water): 0,029 mg/kg dw  
PNEC, soil: 0,237 mg/kg dw

Information about Oxirane, mono[(C12-14-alkyloxy)methyl] derivs (CAS 68609-97-2):  
PNEC, water (freshwater): 1,12 mg/L  
PNEC, water (marine water): 0,112 mg/L  
PNEC, sewage treatment plant: 10 mg/L  
PNEC, sediment (freshwater): 1,05 mg/kg dw  
PNEC, sediment (marine water): 0,105 mg/kg dw  
PNEC, soil: 20 mg/kg dw

## 8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

## Personal protection equipment

### Occupational exposure controls

Respiratory protection: In case of inadequate ventilation wear respiratory protection.  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Protective gloves according to DIN EN ISO 374-1.  
Glove material:  
short-term: Nitrile rubber - Layer thickness: 0,4 mm  
long-term: ethylene vinyl alcohol laminate (EVAL), Butyl caoutchouc (butyl rubber) - Layer thickness: 0,7 mm  
Breakthrough time: > 480 min  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1.



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Body protection: Protective work clothing, chemical resistant safety shoes..

General protection and hygiene measures:

Obtain special instructions before use. Avoid contact during pregnancy/while nursing.  
Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing.  
Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.  
Work place should be equipped with a shower and an eye rinsing apparatus.

### Environmental exposure controls

Refer to "6.2 Environmental precautions".

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical state at 20 °C and 101.3 kPa              | liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Colour:                                            | transparent - light yellow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Odour:                                             | Characteristic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Odour threshold:                                   | not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Melting point/freezing point:                      | Not determined                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Boiling point:                                     | Not determined                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Flammability:                                      | This material is combustible, but will not ignite readily.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Lower and upper explosion limit:                   | LEL (Lower Explosion Limit): 0,00 Vol-%<br>UEL (Upper Explosive Limit): 0,00 Vol-%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Flash point:                                       | > 150 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Auto-ignition temperature:                         | Not determined                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Decomposition temperature:                         | Not relevant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| pH:                                                | Not determined                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Kinematic viscosity:                               | Not determined                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Dynamic viscosity:                                 | at 25 °C: 600 - 1.100 mPa*s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Solubility:                                        | Not determined                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Partition coefficient n-octanol/water (log value): | 2,7 log K(o/w) (Bisphenol F Epoxy Resin)<br>Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.<br>at 20 °C: 3,77 log K(o/w) (Oxirane, mono[(C12-14-alkyloxy)methyl] derivs)<br>Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.<br>at 20 °C: 0,822 log K(o/w) (Reaction products of 1,6-hexanediol with chloromethyloxirane)<br>Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.<br>at 25 °C: 2,64 - 3,78 log K(o/w) (Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700))<br>Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. |
| Vapour pressure:                                   | at 20 °C: 82 Pa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Density:                                           | at 20 °C: 1,135 - 1,155 g/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Relative vapour density:                           | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |





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Particle characteristics:

Not applicable

### 9.2 Other information

Explosive properties:

No data available

Oxidizing characteristics:

No data available

Auto-ignition temperature:

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No dangerous reactions with proper and specified storage and handling.  
Elevated temperatures can cause hazardous polymerisation.

### 10.4 Conditions to avoid

Protect from heat and direct sunlight.  
Do not expose to temperatures above 55 °C.

### 10.5 Incompatible materials

Oxidizing agents, organic nitro compounds, amines, mercaptan, acids, phenols,  
anhydrides, Sodium hydroxide

### 10.6 Hazardous decomposition products

No decomposition when used properly.

Thermal decomposition:

Not relevant



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## SECTION 11: Toxicological information

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

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: Repr. 1B; H360F = May damage fertility.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

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

### 11.2 Information on other hazards

Endocrine disrupting properties:

None

### Symptoms

In case of inhalation:  
Mist or vapours released by overheating may cause irritation of the respiratory tract.

After contact with skin: Irritation and redness may occur.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.



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## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.  
Information about Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight  $\leq 700$ ) (CAS 25068-38-6):  
Fish toxicity:  
LC50: 2,4 mg/L/24h  
Daphnia toxicity:  
LC50: 4,9 mg/L/24h  
EC50: 4,6 mg/L/24h  
Information about Oxirane, mono[(C12-14-alkyloxy)methyl] derivs (CAS 68609-97-2):  
Fish toxicity:  
LL50 Oncorhynchus mykiss (rainbow trout): > 100 mg/L/96h  
Daphnia toxicity:  
EL50 Daphnia magna (Big water flea): 7,2 mg/L/48h  
Algae toxicity:  
IC50 Pseudokirchneriella subcapitata (green algae) 843,75 mg/L/48h (OECD 201)  
Water Hazard Class: 2 = obviously hazardous to water (self-classified)

### 12.2 Persistence and degradability

Further details: Biodegradability:  
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs (CAS 68609-97-2): 87 %/ 28d (OECD 301 F), readily biodegradable.

### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):  
Information about Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight  $\leq 700$ ) (CAS 25068-38-6):  
BCF: 31  
Information about Reaction products of 1,6-hexanediol with chloromethyloxirane (CAS 933999-84-9):  
BCF: 3,57  
Information about Bisphenol F Epoxy Resin (CAS 9003-36-5):  
BCF: 150  
Information about Oxirane, mono[(C12-14-alkyloxy)methyl] derivs (CAS 68609-97-2):  
BCF:  $\geq 160 - \leq 263$

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

### 12.6 Endocrine disrupting properties

None



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**12.7 Other adverse effects**

AOX reference: Product does not contain organically bound halogen (AOX).  
General information: Do not allow to enter into ground-water, surface water or drains.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Waste key number: 08 04 09\* = Waste adhesives and sealants containing organic solvents or other dangerous substances  
\* = Evidence for disposal must be provided.

Recommendation: Special waste. Dispose of waste according to applicable legislation.

**Package**

Recommendation: Dispose of waste according to applicable legislation.  
Handle contaminated packages in the same way as the substance itself.

**Section 14. Transport information****14.1 UN number or ID number**

ADR/RID, ADN, IMDG, IATA-DGR:  
UN 3082

**14.2 UN proper shipping name**

ADR/RID, ADN, IMDG, IATA-DGR:  
UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight  $\leq 700$ ); Bisphenol F Epoxy Resin)

**14.3 Transport hazard class(es)**

ADR/RID, ADN: Class 9, Code: M6  
IMDG: Class 9, Subrisk -  
IATA-DGR: Class 9

**14.4 Packing group**

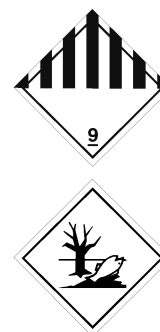
ADR/RID, ADN, IMDG, IATA-DGR:  
III

**14.5 Environmental hazards**

Dangerous for the environment:  
Substance/mixture is environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG: yes

Marine pollutant - ADN: yes





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## 14.6 Special precautions for user

### Land transport (ADR/RID)

|                                          |                                                             |
|------------------------------------------|-------------------------------------------------------------|
| Warning board:                           | ADR/RID: Hazard identification number 90, UN number UN 3082 |
| Hazard label:                            | 9                                                           |
| Special Provisions:                      | 274 335 375 601 650                                         |
| Limited quantities:                      | 5 L                                                         |
| EQ:                                      | E1                                                          |
| Package - Instructions:                  | P001 IBC03 LP01 R001                                        |
| Package - Special Provisions:            | PP1                                                         |
| Special provisions for packing together: | MP19                                                        |
| Portable tanks - Instructions:           | T4                                                          |
| Portable tanks - Special Provisions:     | TP1 TP29                                                    |
| Tank coding:                             | LGBV                                                        |
| Tunnel restriction code:                 | -                                                           |

### Inland waterway craft (ADN)

|                      |                     |
|----------------------|---------------------|
| Hazard label:        | 9                   |
| Special Provisions:  | 274 335 375 601 650 |
| Limited quantities:  | 5 L                 |
| EQ:                  | E1                  |
| Transport permitted: | T                   |
| Equipment necessary: | PP                  |

### Sea transport (IMDG)

|                                 |                 |
|---------------------------------|-----------------|
| EmS:                            | F-A, S-F        |
| Special Provisions:             | 274 335 375 969 |
| Limited quantities:             | 5 L             |
| Excepted quantities:            | E1              |
| Package - Instructions:         | P001, LP01      |
| Package - Provisions:           | PP1             |
| IBC - Instructions:             | IBC03           |
| IBC - Provisions:               | -               |
| Tank instructions - IMO:        | -               |
| Tank instructions - UN:         | T4              |
| Tank instructions - Provisions: | TP1, TP29       |
| Stowage and handling:           | Category A.     |
| Properties and observations:    | -               |
| Segregation group:              | none            |

### Air transport (IATA)

|                                         |                                              |
|-----------------------------------------|----------------------------------------------|
| Hazard label:                           | Miscellaneous & Environmentally hazardous    |
| Excepted Quantity Code:                 | E1                                           |
| Passenger and Cargo Aircraft: Ltd.Qty.: | Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G |
| Passenger and Cargo Aircraft:           | Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L    |
| Cargo Aircraft only:                    | Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L    |
| Special Provisions:                     | A97 A158 A197 A215                           |
| Emergency Response Guide-Code (ERG):    | 9L                                           |

## 14.7 Maritime transport in bulk according to IMO instruments

No data available



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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations - Germany**

Storage class: 6.1C = Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

Water Hazard Class: 2 = obviously hazardous to water (self-classified)

Major Accident Ordinance (12. BImSchV):

Environmental hazards: Number 1.3.2 = Code E2,  
Quantity threshold 200 000 kg / 500 000 kg

Technical guidance air: 5.2.5  
5.2.7.1.3

Information on working limitations:

Observe employment restrictions for young people.

Observe employment restrictions for expectant or nursing mothers.

Further regulations, limitations and legal requirements:

The substance is subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

**National regulations - EC member states**

Volatile organic compounds (VOC):

28 % by weight

**Labelling of packaging with <= 125mL content**

Signal word:

**Danger**

Hazard statements:

H317

May cause an allergic skin reaction.

H360F

May damage fertility.

EUH205

Contains epoxy constituents. May produce an allergic reaction.

Precautionary statements:

P201

Obtain special instructions before use.

P261

Avoid breathing mist/vapours/spray.

P280

Wear protective gloves/protective clothing/eye protection.

P308+P313

IF exposed or concerned: Get medical advice/attention.

P362+P364

Take off contaminated clothing and wash it before reuse.

P405

Store locked up.

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: refer to Germany, 12. BImSchV

Use restriction according to REACH annex XVII, no.: 3, 30, 75

**15.2 Chemical Safety Assessment**

For this mixture a chemical safety assessment is not required.

**SECTION 16: Other information**

Classification procedure:

Physical hazards: on basis of test data

Health hazards, environmental hazards: calculation method



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Wording of the H-phrases under paragraph 2 and 3:

H315 = Causes skin irritation.  
H317 = May cause an allergic skin reaction.  
H319 = Causes serious eye irritation.  
H360F = May damage fertility.  
H411 = Toxic to aquatic life with long lasting effects.  
H412 = Harmful to aquatic life with long lasting effects.  
EUH205 = Contains epoxy constituents. May produce an allergic reaction.

Reason of change:

Changes in section 1: UFI  
Changes in section 2: Classification, labelling  
Changes in section 3: Composition / Information on ingredients  
Changes in section 7: Storage class  
Changes in section 8: DNEL, PNEC  
Changes in section 15: Regulatory information  
General revision

Date of first version:

13.9.2024

Department issuing data sheet:

see section 1: Department responsible for information

Abbreviations and acronyms:

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  
AOX: Adsorbable Organic Halogens  
Aquatic Chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EC50: Effective Concentration 50%  
EL50: Effective loading rate 50%  
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
Eye Irrit.: Eye irritation  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50: Inhibition Concentration 50%  
IMDG Code: International Maritime Dangerous Goods Code  
IMO: International Maritime Organization  
LC50: Median lethal concentration  
LEL: Lower Explosion Limit  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
Repr.: Reproductive toxicity  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
Skin Irrit.: Skin irritation  
Skin Sens.: Skin sensitisation  
TRGS: Technical Rules for Hazardous Substances  
UFI: Unique Formula Identifier  
UN: United Nations  
vPvB: Very persistent and very bioaccumulative

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.