

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 978502 Epoxy Resin, UV-Stable, Hardener

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Revised edition: 09.02.2022

Version: 6

Printed: 25.03.2022

### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

*Product Name:* Epoxy Resin, UV-Stable, Hardener

*Article No.:* 978502

*UFI:* --

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*  
Coatings

*Uses advised against:*

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Kremer Pigmente GmbH & Co. KG

*Address:* Hauptstr. 41-47, 88317 Aichstetten, Germany

*Tel./Fax.:* Tel +49 7565 914480, Fax +49 7565 1606

*Internet:* www.kremer-pigmente.com

*E-Mail:* info@kremer-pigmente.com

*Importer:* --

#### 1.4. Emergency No.

*Emergency No.:* +49 7565 914480 (Mon-Fri 8:00 - 17:00)

#### 1.4.2 Poison Center:

### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

Skin corrosion, hazard category 1A  
Serious eye damage, hazard category 1  
Skin sensitization, hazard category 1  
Chronic aquatic toxicity, hazard category 3  
H314 Causes severe skin burns and eye damage.  
Cat.: 1  
H317 May cause an allergic skin reaction.  
Cat.: 1  
H412 Harmful to aquatic life with long lasting effects.  
Cat.: 3

*Possible Environmental Effects:*

#### 2.2. Label Elements

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

*Hazard designation:*

GHS05-2

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GHS07

Signal word:

Danger

Hazard designation:

- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.

Safety designation:

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
- P310 Immediately call a poison center or physician.
- P321 Specific treatment (see label).
- P362 Take off contaminated clothing and wash before reuse.
- P405 Store locked up.
- P501 Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

### 2.3. Other Hazards

## 3. Composition/Information on Ingredients

### 3.1. Substance

### 3.2. Mixture

*This produkt is a mixture.*

Chemical Characterization:

Information on Components / Hazardous Ingredients:

Reaction products of 3-Aminomethyl-3,5,5-trimethylcyclohexylamine and 4,4'-Isopylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane (H314-317-412)	25 - 50 %	CAS-Nr: 38294-64-3 EINECS-Nr: EC-Nr:
Benzyl alcohol (H302-312-332); REACH Reg. No. 01-2119492630-38-xxxx	25 - 50 %	CAS-Nr: 100-51-6 EINECS-Nr: 202-859-9 EC-Nr: 603-057-00-5
3,3,5-Trimethylhexamethylene-diamine (H314-	10 - 25 %	CAS-Nr: 25513-64-8

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EINECS-Nr:

EC-Nr:

*Additional information:*

### 4. First Aid Measures

#### 4.1. Description of the First Aid Measures

*General information:*

*Remove contaminated clothes.*

*After inhalation:*

*Supply fresh air.*

*Seek medical advice immediately.*

*In case of unconsciousness place patient stable in side position for transportation.*

*After skin contact:*

*Wash off immediately with soap and plenty of water and rinse thoroughly.*

*After eye contact:*

*Rinse open eye for several minutes under running water.*

*Consult a physician.*

*After ingestion:*

*Rinse mouth with water and give plenty of water to drink. Consult a physician.*

#### 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*No further information available.*

*Effects:*

#### 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*No further information available.*

### 5. Fire-Fighting Measures

#### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Use extinguishing media for surrounding fire.*

*Unsuitable extinguishing media:*

*None known.*

#### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*When heated or in case of fire: formation of hazard fumes.*

#### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device.*

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*Further information:*

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### 6. Accidental Release Measures

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Wear appropriate protective equipment. Keep spectators away.  
Use respiratory protection.*

#### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.  
Contact local authorities if product pollutes soil or vegetation.*

#### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Contain with absorbent material (sand, diatomaceous earth, acid binder, universal absorbent, saw dust) and dispose accordingly.  
Dispose of contaminated material as waste according to section 13.  
Use neutralizing agents.*

#### 6.4. Reference to other Sections

*For information for safe handling see Section 7.  
Protective clothing, see Section 8.*

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### 7. Handling and Storage

#### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Provide adequate ventilation.  
Avoid the formation of aerosol.*

*Hygienic measures:*

*Change contaminated clothing. Wash hands after work.  
Avoid contact with eyes and skin.*

#### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Keep container tightly closed*

*Requirements for storage areas and containers:*

*No special measures necessary.*

*Information on fire and explosion protection:*

*Keep breathing apparatus available.*

*Storage class:*

*Further Information:*

#### 7.3. Specific End Use(s)

*Further information:*

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### 8. Exposure Controls/Personal Protection

#### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*Benzyl alcohol (CAS 100-51-6): TLV (Long-term value): 22 mg/m<sup>3</sup>, 5 ml/m<sup>3</sup>; 2(l)*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

#### 8.2. Exposure Controls

*Technical protective measures:*

*Provide adequate ventilation/exhaust system.*

*Personal Protection*

*General protective measures:*

*Keep away from foodstuffs, beverages and feed.*

*Avoid contact with eyes and skin.*

*Remove contaminated clothing immediately.*

*Keep away from foodstuffs, beverages and feed.*

*Wash hands before breaks and after work.*

*Respiratory protection:*

*Respirator mask required if ventilation is insufficient. Wear filter respirator in case of short-term or low exposure, and wear a self-contained breathing apparatus in case of long-term or higher exposure.*

*Hand protection:*

*Protective gloves (EN 374)*

*Protective glove material:*

*Nitrile rubber (NBR)*

*Eye protection:*

*Tightly fitting safety goggles (EN 166).*

*Body protection:*

*No special protection required.*

*Environmental precautions:*

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### 9. Physical and Chemical Properties

#### 9.1. Information on Basic Physical and Chemical Properties

*Form: liquid*

*Color:*

*Odor: characteristic*

*Odor threshold:*

*not determined*

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<i>pH-Value:</i>	<i>not determined</i>
<i>Melting temperature:</i>	<i>not determined</i>
<i>Boiling temperature:</i>	205°C
<i>Flash point:</i>	> 100°C
<i>Evaporation rate:</i>	<i>not determined</i>
<i>Flammability (solid, gas):</i>	<i>not applicable</i>
<i>Upper explosion limit:</i>	13 Vol.-%
<i>Lower explosion limit:</i>	1.3 Vol.-%
<i>Vapor pressure:</i>	0.1 hPa
<i>Vapor density:</i>	<i>not determined</i>
<i>Density:</i>	1 g/cm <sup>3</sup>
<i>Solubility in water:</i>	<i>not miscible</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>not determined</i>
<i>Auto-ignition temperature:</i>	<i>Product is not auto-ignitable.</i>
<i>Decomposition temperature:</i>	<i>not determined</i>
<i>Viscosity, dynamic:</i>	<i>not determined</i>
<i>Explosive properties:</i>	<i>Product does not present an explosion hazard.</i>
<i>Oxidizing properties:</i>	
<i>Bulk density:</i>	

### 9.2. Further Information

<i>Solubility in solvents:</i>	
<i>Viscosity, kinematic:</i>	
<i>Burning class:</i>	
<i>Solvent content:</i>	
<i>Solid content:</i>	0 %
<i>Particle size:</i>	
<i>Other information:</i>	

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### 10. Stability and Reactivity

#### 10.1. Reactivity

*Stable if used according to specifications.*

#### 10.2. Chemical Stability

*Stable if used according to specifications.*

#### 10.3. Possibility of Hazardous Reactions

*None if handled and stored according to specifications.*

#### 10.4. Conditions to Avoid

*Conditions to avoid:*

*No further information available.*

*Thermal decomposition:*

#### 10.5. Incompatible Materials

*No information available.*

#### 10.6. Hazardous Decomposition Products

*None known.*

#### 10.7. Further Information

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### 11. Toxicological Information

#### 11.1. Information on Toxicological Effects

*Acute Toxicity*

*LD50, oral: 1230 mg/kg (rat)*

*LD50, dermal: 2000 mg/kg (rabbit)*

*LC50, inhalation: No information available.*

*Primary effects*

*Irritant effect on skin: Causes severe burns.*

*Irritant effect on eyes: Causes serious eye damage.*

*Inhalation: No information available.*

*Ingestion: No information available*

*Sensitization: May cause allergic skin reactions.*

*Mutagenicity: No mutagenic effects observed.*

*Reproductive toxicity: No reproductive toxicity expected.*

*Carcinogenicity: No cancerogenic effect known.*

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### *Teratogenicity:*

*No relevant data found.*

### *Specific target organ toxicity (STOT):*

*Single exposure: no organospecific toxicity expected.  
Repeated exposure: no organospecific toxicity expected.*

### *Additional toxicological information:*

*Aspiration hazard: no specific effects or hazards known.*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

#### *Fish toxicity:*

*No data available.*

#### *Daphnia toxicity:*

*No information available.*

#### *Bacteria toxicity:*

*No data available.*

#### *Algae toxicity:*

*No information available.*

### 12.2. Persistency and Degradability

*No information available.*

### 12.3. Bioaccumulation

*No information available.*

### 12.4. Mobility

*No information available.*

### 12.5. Results of PBT- und vPvP Assessment

*Not applicable.*

### 12.6. Other Adverse Effects

#### *Water hazard class:*

*1, slightly hazardous (German Regulation; Self-assessment).  
Do not allow undiluted product or large quantities of it to reach  
ground water, waterways or sewage system.*

#### *Behaviour in sewage systems:*

#### *Further ecological effects:*

*Harmful to aquatic organisms.*

#### *AOX Value:*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

#### *Product:*

*Must not be disposed together with household garbage.*

#### *European Waste Code (EWC):*

*070299 - Wastes not otherwise specified*

#### *Uncleaned packaging:*

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*Dispose of according to official local regulations.*

*Waste Code No.:*

### 14. Transport Information

#### 14.1. UN Number

*ADR, IMDG, IATA* 2735

#### 14.2. UN Proper Shipping Name

*ADR/RID:* POLYAMINE, FLÜSSIG, ÄTZEND, N.A.G.

*IMDG/IATA:* POLYAMINES, LIQUID, CORROSIVE, N.O.S.

#### 14.3. Transport Hazard Classes

*ADR Class:* 8

*Hazard no.:* 8

*Classification code:* C7

*Tunnel restriction code:* E

*IMDG Class (sea):* 8

*Hazard no.:* 8

*EmS No.:* F-A, S-B

*IATA Class:* 8

*Hazard no.:* 8

#### 14.4. Packaging Group

*ADR/RID:* III

*IMDG:* III

*IATA:* III

#### 14.5. Environmental Hazards

*Not classified as environmentally hazardous.*

#### 14.6. Special Precautions for User

*Warning: corrosive substances*

#### 14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

#### 14.8. Further Information

### 15. Regulatory Information

#### 15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

*Water hazard class:*

*1, slightly hazardous for water (German Regulation, self-assessment)*

*Local regulations on chemical accidents:*

*Seveso III Directive: not applicable under Directive 2012/18/EC.*

*Employment restrictions:*

*Restriction and prohibition of application:*

*EC. REACH, Section XVII, Restrictions on the Manufacture, next page: 10*

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*Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 3*

*Technical instructions on air quality:*

### 15.2. Chemical Safety Assessment

*A Chemical Safety Assessment has not been carried out for this product.*

### 15.3. Further Information

*RoHS Directive 2011/65/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHs): not listed.*

*Regulation (EU) No. 2019/1148, Annex I - Restricted Explosives Precursors (upper limit value for the purpose of licensing under Article 5(3)): None of the ingredients is listed.*

*Regulation (EC) 273/2004, On Drug Precursors, Category 3: None of the ingredients is listed.*

*Regulation (EC) 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: not forbidden and/or not restricted*

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### 16. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*