

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 21.02.2023

Version number 2

Revision: 21.02.2023

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

- **1.1 Product identifier**
- Trade name **Reflexweiß Epoxid**
  
- **Article number:** 90.7665
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Coating material
  
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
EverGlow GmbH  
Draisstr. 19 a-b  
D-76461 Muggensturm
  
- Tel.: +49(0)7222 96665 0  
· Fax.: +49 (0)7222 96665 55  
· www.everglow.de
  
- **Informing department:** Product safety department.
- **1.4 Emergency telephone number:** +49 (0)7222 90 66 18 (Mo-Fr 7:00-17:00)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
- 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.
- Aquatic Chronic 2    H411 Toxic to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS07    GHS09

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- **Signal word** Warning
- **Hazard-determining components of labelling:**  
 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane  
 Phenol, methylstyrolisiert  
 2,3-epoxypropyl neodecanoate
- **Hazard statements**  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P262 Do not get in eyes, on skin, or on clothing.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves / eye protection.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**  
 EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of the substances listed below with harmless additions.

· **Dangerous components:**

CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide Carc. 2, H351	50-100%
CAS: 1675-54-3 EINECS: 216-823-5	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane Aquatic Chronic 2, H411;  Skin Irrit. 2, H315;  Eye Irrit. 2, H319;  Skin Sens. 1, H317	25-50%

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CAS: 68512-30-1	Phenol, methylstyrolisiert	≥0.1-<1%
EC number: 700-960-7	⚠ Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 26761-45-5	2,3-epoxypropyl neodecanoate	≥0.25-<0.5%
	⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** Take affected persons out of danger area and instruct to lie down.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** Instantly rinse with water.
- **After eye contact**  
Remove any contact lenses.  
Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** Allergic reactions
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **5.2 Special hazards arising from the substance or mixture**  
Can be released in case of fire  
Carbon monoxide (CO)  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
Cool endangered containers with water spray jet.  
Do not breathe fire gases.

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### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Use breathing protection against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or water bodies.  
Inform respective authorities in case product reaches water or sewage system.
- **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 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Avoid contact with skin, eyes or clothes.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**  
Fumes can combine with air to form an explosive mixture.  
Vapors are heavier than air and spread on the ground. Inflammation possible over a great distance.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:**  
Do not store together with alkalis, acids and oxidizing agents.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class 3**
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical systems:** No further data; see item 7.

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· **Components with critical values that require monitoring at the workplace:**

**1675-54-3 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane**

MAK (Germany) vgl. Abschn. IIb

**26761-45-5 2,3-epoxypropyl neodecanoate**

MAK (Germany) vgl. Abschn. IVe

· **DNELs**

**13463-67-7 titanium dioxide**

Oral DNEL 700 mg/kg bw/day (consumer, systemic, long term)

Inhalative DNEL 10 mg/m<sup>3</sup> (worker, local, long term)

· **PNECs**

**13463-67-7 titanium dioxide**

Oral PNEC 1,667 mg/kg (oral intake (secondary poisoning))

PNEC 0.127 mg/l (fresh water)

1 mg/l (salt water)

0.61 mg/l (sporadic release)

100 mg/l (sewage plant (STP))

PNEC 1,000 mg/kg dwt (fresh water sediment)

100 mg/kg dwt (salt water sediment)

100 mg/kg dwt (soil)

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

Use breathing protection in case of insufficient ventilation.

Filter A/P2.

Not necessary if room is well-ventilated.

· **Protection of hands:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· **Material of gloves**

Nitrile rubber, NBR

Recommended thickness:  $\geq 0,5$  mm.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

### SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

**Form:** Fluid

**Colour:** White

· **Smell:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

Neutral

· **Change in condition**

**Melting point/freezing point:** Not determined

**Initial boiling point and boiling range:**  $>250$  °C

· **Flash point**

**(DIN 51758; SETA CLOSED CUP):** 25 °C (DIN EN 456)

· **Inflammability (solid, gaseous)** Not applicable.

· **Decomposition temperature:** Not determined.

· **Self-inflammability:** Product is not selfigniting.

· **Explosive properties:** Not determined.

· **Critical values for explosion:**

**Lower:** Not determined.

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<b>Upper:</b>	<i>Not determined.</i>
· <b>Steam pressure:</b>	<i>Not determined.</i>
· <b>Density (DIN 51757) at 20 °C:</b>	3.371 g/cm <sup>3</sup>
· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapour density</b>	<i>Not determined.</i>
· <b>Evaporation rate</b>	<i>Not determined.</i>
· <b>Solubility in / Miscibility with Water:</b>	<i>Unsoluble</i>
· <b>Partition coefficient: n-octanol/water:</b>	<i>Not determined.</i>
· <b>Viscosity:</b>	
<b>dynamic:</b>	<i>Not determined.</i>
<b>kinematic:</b>	<i>Not determined.</i>
<b>Organic solvents:</b>	0.7 %
<b>Solids content(DIN 53189):</b>	73.0 %
· <b>9.2 Other information</b>	<i>No further relevant information available.</i>

### **SECTION 10: Stability and reactivity**

- **10.1 Reactivity** *No further relevant information available.*
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
*No decomposition if used according to specifications.*
- **10.3 Possibility of hazardous reactions** *No dangerous reactions known*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known*

### **SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** *Based on available data, the classification criteria are not met.*

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**· LD/LC50 values that are relevant for classification:**

**13463-67-7 titanium dioxide**

Oral	LD50	>5,000 mg/kg (rat)
	NOAEL	3,500 ml/kg/d (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.8 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

**· 12.1 Toxicity**

**· Aquatic toxicity:**

**13463-67-7 titanium dioxide**

NOEC	>100,000 mg/l (bacteriae)
EC50	16 mg/l (algae)
LC50	>1,000 mg/l (fish)
	>100 mg/l (daphniae)

- **12.2 Persistence and degradability** Heavily biodegradable
- **12.3 Bioaccumulative potential** May be accumulated in organism
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish

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- **Additional ecological information:**
- **AOX-indication:** not relevant
- **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:**  
none
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |                                     |                                       |
|-------------------------------------|---------------------------------------|
| <b>14.1 UN-Number</b>               |                                       |
| · <b>ADR, IMDG, IATA</b>            | UN1263                                |
| <b>14.2 UN proper shipping name</b> |                                       |
| · <b>ADR</b>                        | 1263 PAINT, ENVIRONMENTALLY HAZARDOUS |
| · <b>IMDG</b>                       | PAINT, MARINE POLLUTANT               |
| · <b>IATA</b>                       | PAINT                                 |

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· **14.3 Transport hazard class(es)**

· **ADR**



· **Class** 3 (F1) Flammable liquids.  
 · **Label** 3

· **IMDG**



· **Class** 3 Flammable liquids.  
 · **Label** 3

· **IATA**



· **Class** 3 Flammable liquids.  
 · **Label** 3

· **14.4 Packing group**

· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:**

Product contains environmentally hazardous substances: 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

· **Marine pollutant:** Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Flammable liquids.

· **Kemler Number:** 30

· **EMS Number:** F-E,S-E

· **Stowage Category** A

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

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**· Transport/Additional information:**

**· ADR**

· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **Transport category**

3

· **Tunnel restriction code**

D/E

**· IMDG**

· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**

UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

**SECTION 15: Regulatory information**

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

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **National regulations**

· **Information about limitation of use:** none

· **Technical instructions (air):**

Class	Share in %
NK	≥1-<2.5

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **International Listings** 5-5

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**· 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Relevant phrases**

*H312 Harmful in contact with skin.*  
*H315 Causes skin irritation.*  
*H317 May cause an allergic skin reaction.*  
*H319 Causes serious eye irritation.*  
*H351 Suspected of causing cancer.*  
*H411 Toxic to aquatic life with long lasting effects.*  
*H412 Harmful to aquatic life with long lasting effects.*

**· Abbreviations and acronyms:**

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*  
*IMDG: International Maritime Code for Dangerous Goods*  
*IATA: International Air Transport Association*  
*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*  
*EINECS: European Inventory of Existing Commercial Chemical Substances*  
*ELINCS: European List of Notified Chemical Substances*  
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*  
*MAL-Code: Måleteknisk Arbejdshygienisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)*  
*DNEL: Derived No-Effect Level (UK REACH)*  
*PNEC: Predicted No-Effect Concentration (UK REACH)*  
*LC50: Lethal concentration, 50 percent*  
*LD50: Lethal dose, 50 percent*  
*PBT: Persistent, Bioaccumulative and Toxic*  
*vPvB: very Persistent and very Bioaccumulative*  
*Acute Tox. 4: Acute toxicity – Category 4*  
*Skin Irrit. 2: Skin corrosion/irritation – Category 2*  
*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*  
*Skin Sens. 1: Skin sensitisation – Category 1*  
*Carc. 2: Carcinogenicity – Category 2*  
*Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*  
*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

**· \* Data compared to the previous version altered.**