



## 1. Identification of the substance/preparation and of the company/undertaking

### Identification of the substance or preparation

TIP TOP GROUT 648+ RESIN

**Art.-No.:**

590 3126

**Use of the substance/preparation**

Coating component

**Company/undertaking identification**

TIP TOP Oberflächenschutz Elbe GmbH

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Responsible Department

Emergency telephone :++49 (0) 6132 / 84463 (GBK Gefahrgut Buero GmbH, Ingelheim)

Responsible for the safety data sheet: sds@gbk-ingelheim.de

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## 2. Hazards identification

### **Classification**

Indications of danger : Harmful, Dangerous for the environment

R-phrases :

Irritating to eyes and skin.

May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## 3. Composition/information on ingredients

**Chemical characterization** ( Mixture )

Epoxy resin with reactive diluting agent

### **Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
500-033-5	25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	< 80 %	Xi, N R36/38-43-51-53
219-371-7	2425-79-8	1,4-bis(2,3 epoxypropoxy)butane; ( butanedioldiglycidyl ether)	< 10 %	Xn, Xi R20/21-36/38-43

Full text of each relevant R phrase can be found in heading 16.

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## 4. First aid measures

### **General information**

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

### **After inhalation**

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

In the event of symptoms refer for medical treatment.



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**After contact with skin**

Wash off immediately with soap and plenty of water.

Consult a doctor if skin irritation persists.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

**After ingestion**

Induce vomiting only upon the advice of a physician.

Never give anything by mouth to an unconscious person.

Summon a doctor immediately.

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**5. Fire-fighting measures**

**Suitable extinguishing media**

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.

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

Full water jet

**Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases**

Fire may produce:

Carbon monoxide and carbon dioxide.

Phenoles

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

Protective suit

**Additional information**

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**6. Accidental release measures**

**Personal precautions**

In case of vapour formation use respirator.

Ensure adequate ventilation.

Use personal protective clothing.

**Environmental precautions**

Clean contaminated surface thoroughly.

Do not discharge into the drains/surface waters/groundwater.

**Methods for cleaning up/taking up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

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**7. Handling and storage**

**Handling**

**Advice on safe handling**

Keep container tightly closed.

Use only in thoroughly ventilated areas.

Avoid contact with skin, eyes and clothing.



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**Advice on protection against fire and explosion**

No special protective measures against fire required.

**Storage**

**Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

Protect against direct sun radiation.

Keep at temperatures between 3°C and 48°C.

**Advice on storage compatibility**

Incompatible with:

Oxidizing agents

Amines

Acids and bases.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**Storageclass (VCI)** 10

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**8. Exposure controls/personal protection**

**Exposure limit values**

**Exposure controls**

**Occupational exposure controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothes before re-use.

**Respiratory protection**

No personal respiratory protective equipment normally required.

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

**Hand protection**

Chemical protective glove made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Pls. find examples in the protective gloves database under: <http://bestglove.com/site/chemrest/>

**Eye protection**

Eye wash bottle with pure water.

Tightly fitting goggles

**Skin protection**

Long sleeved clothing.



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## **9. Physical and chemical properties**

### **General information**

Physical state	Liquid
Colour	Colourless - yellowish
Odour	Slight of epoxy

### **Important health, safety and environmental information**

Test method

#### **Changes in the physical state**

Flash point > 140 °C

#### **Flammability**

Lower explosion limits n.d.

Ignition temperature n.d.

Density (at 20 °C) : 1,14 - 1,18 g/cm<sup>3</sup>

Water solubility : Immiscible  
at (20 °C)

Viscosity / dynamic : 300 - 600 mPa·s  
at (25 °C)

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## **10. Stability and reactivity**

### **Conditions to avoid**

To avoid thermal decomposition, do not overheat.  
Protect against direct sun radiation.

### **Materials to avoid**

Strong oxidizing agents., Amines, Acids and bases

### **Hazardous decomposition products**

Carbon monoxide and carbon dioxide.  
Phenol

### **Additional information**

No decomposition if stored and applied as directed.

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## **11. Toxicological information**

### **Empirical data on effects on humans**

Sensitization through skin contact possible.  
Irritating to eyes and skin.

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## **12. Ecological information**

### **Further information**

Do not flush into surface water or sanitary sewer system.  
Hazard to waters  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Not readily biodegradable.



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### **13. Disposal considerations**

#### **Advice on disposal**

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

#### **Waste disposal number of waste from residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances

Classified as hazardous waste.

#### **Contaminated packaging**

Contaminated packagings are to be treated like the product itself.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

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### **14. Transport information**

#### **Land transport (ADR/RID)**

ADR/RID class	9
Classification code :	M6
Hazard-no.	90
UN number	3082
Hazard label	9
ADR/RID packing group	III
Limited quantity	LQ 7

#### **Description of the goods**

Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)

#### **Other applicable information (land transport)**

LQ 7: combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

Tunnel restriction code: E

Transport category: 3

Additional label with symbol "fish and tree" according to subsection 5.2.1.8.3. ADR for single packagings and inner packagings with > 5 kg or 5 L.

#### **Inland waterways transport**

#### **Marine transport**

IMDG code	9
UN number	3082
Marine pollutant	No
EmS	F-A; S-F
IMDG packing group	III
Limited quantity :	5 L / 30 kg
Hazard label	9

#### **Description of the goods**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)

#### **Other applicable information (marine transport)**

**Safety Data Sheet according to Regulation (EU) No. 1907/2006**

TIP TOP Oberflächenschutz Elbe GmbH

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Limited quantities (section 3.4): combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

Additional label with symbol "fish and tree" according to subsection 5.2.1. IMDG Code for single packagings and inner packagings with > 5 kg or 5 L, transition period ends 31.12.2009.

**Air transport**

ICAO/IATA-DGR	9
UN/ID number	3082
Hazard label	9
IATA-packing instructions - Passenger	914
IATA-max. quantity - Passenger	450 L
IATA-packing instructions - Cargo	914
IATA-max. quantity - Cargo	450 L
ICAO packing group	III
Limited quantity Passenger	Y914 / 30 kg G

**Description of the goods**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)

**Other applicable information (air transport)**

Additional label with symbol "fish and tree" according to subsection 7.1.6.3. IATA/DGR for single packagings and inner packagings with > 5 kg or 5 L.

**15. Regulatory information****Labelling**

Additional advice on labelling According to EC-regulations the product is to be labelled as follows:

Indication of danger Xn - Harmful; N - Dangerous for the environment

**Hazardous component(s) to be indicated on label**

1,4-bis(2,3 epoxypropoxy)butane; ( butanedioldiglycidyl ether)

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

**R phrases**

- 36/38 Irritating to eyes and skin.
- 43 May cause sensitization by skin contact.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases**

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 After contact with skin, wash immediately with plenty of water and soap.
- 35 This material and its container must be disposed of in a safe way.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

**Special labelling for certain preparations**

Contains epoxy constituents. See information supplied by the manufacturer.

**National regulatory information**

Employment restrictions	Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D)	2 - water contaminating
1999/13/EC (VOC)	0 %

**16. Other information**

**Safety Data Sheet according to Regulation (EU) No. 1907/2006**

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**Full text of R-phrases referred to under sections 2 and 3**

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|-------|---|
| 20/21 | Harmful by inhalation and in contact with skin.   |
| 36/38 | Irritating to eyes and skin.  |
| 43    | May cause sensitization by skin contact.  |
| 51    | Toxic to aquatic organisms.   |
| 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 53    | May cause long-term adverse effects in the aquatic environment.                             |

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*