



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

### Identification of the substance or preparation

TIP TOP TOPLINE 640

#### **Art.-No.:**

590 1025, 590 1032

#### **Use of the substance/preparation**

Coating component for protection against corrosion

### 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

## 2. Hazards identification

### **Classification**

Indications of danger : Harmful

R-phrases :

Flammable.

Harmful by inhalation.

Irritating to eyes and skin.

## 3. Composition/information on ingredients

**Chemical characterization** ( Mixture )

Preparation with styrene

### **Hazardous components**

| EC-No.    | CAS-No.    | Chemical name                              | Quantity | Classification      |
|-----------|------------|--|----------|---------------------|
| 202-851-5 | 100-42-5   | Styrene                                    | < 40 %   | Xn, Xi R10-20-36/38 |
| 270-066-5 | 68409-81-4 | Fatty acids, C6-C19, branched, Co(2+)salts | < 1 %    | Xn, Xi R22-38-43    |

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

## 4. First aid measures

### **General information**

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

Take away from danger area and lay down affected person.

### **After inhalation**

Move to fresh air in case of accidental inhalation of vapours.

Seek medical treatment immediately.



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**After contact with skin**

Wash off immediately with soap and plenty of water.

Treat subsequently with skin cream.

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.

Consult (eye) doctor immediately.

**After ingestion**

Induce vomiting only upon the advice of a physician.

Do not give milk.

Attention. Beware, danger of aspiration.

Do not induce vomiting.

Summon a doctor immediately.

Immediately give plenty of water, if possible charcoal slurry.

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**5. Fire-fighting measures**

**Suitable extinguishing media**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), 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.

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

**Additional information**

Vapours are heavier than air and spread along ground.

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Cool containers at risk with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

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.

Remove persons to safety.

Use personal protective clothing.

Keep away sources of ignition.

**Environmental precautions**

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

Do not discharge into the subsoil/soil.

**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.  
Vapours are heavier than air and spread along ground.  
Use only in thoroughly ventilated areas.  
Provide suitable extraction at the processing machines.

#### **Advice on protection against fire and explosion**

Keep away from heat and sources of ignition.  
Do not smoke.  
Take precautionary measures against static discharges.  
Use only explosion-proof equipment.

### **Storage**

#### **Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.  
Pay attention to anti-explosion rules.  
Avoid temperatures above 50°C.

#### **Advice on storage compatibility**

Incompatible with:  
Oxidizing agents, Metal halogenides, Peroxides

#### **Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**Storageclass (VCI)** 3 A

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## **8. Exposure controls/personal protection**

### **Exposure limit values**

#### **Exposure limits (EH40)**

| CAS-No.  | Chemical name | ml/m <sup>3</sup> | mg/m <sup>3</sup> | F/ml | Category      | Origin |
|----------|---------------|-------------------|-------------------|------|---------------|--------|
| 100-42-5 | Styrene       | 100               | 430               |      | TWA (8 h)     | WEL    |
|          | Styrene       | 250               | 1080              |      | STEL (15 min) | WEL    |

### **Exposure controls**

#### **Occupational exposure controls**

Ensure adequate ventilation, especially in confined areas.  
Pay attention to explosion protection rules.

#### **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.  
Treat subsequently with skin cream.  
Remove and wash contaminated clothes before re-use.

#### **Respiratory protection**

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

#### **Hand protection**

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

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00359-1120



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.

Solvent-resistant apron.

**9. Physical and chemical properties****General information**

|                |                |
|----------------|----------------|
| Physical state | Liquid         |
| Colour         | Violet         |
| Odour          | Characteristic |

**Important health, safety and environmental information**

|                                      |                               | Test method    |
|--------------------------------------|-------------------------------|----------------|
| <b>Changes in the physical state</b> |                               |                |
| Flash point                          | 34 °C                         | CC             |
| <b>Flammability</b>                  |                               |                |
| Lower explosion limits               | 1,1 vol. %                    |                |
| Upper explosion limits               |                               |                |
| Ignition temperature                 | > 400 °C                      |                |
| Vapour pressure :                    | 6 hPa                         |                |
| at (20 °C)                           |                               |                |
| Density :                            | 1,12 - 1,18 g/cm <sup>3</sup> |                |
| Water solubility :                   | Immiscible                    |                |
| at (20 °C)                           |                               |                |
| Viscosity / dynamic :                | 500 - 900 mPa·s               |                |
| at (25 °C)                           |                               |                |
| Flow time :                          | 25 s                          | 6 DIN/ISO 2431 |
| at (25 °C)                           |                               |                |
| Immiscible                           |                               |                |

**10. Stability and reactivity****Conditions to avoid**

To avoid thermal decomposition, do not overheat.

Vapour/air mixtures are explosive at intensive warming.

Heating can release vapours which can be ignited.

Avoid temperatures above 50°C.

If heating up polymerisation.

**Materials to avoid**

Oxidizing agents, Metal halogenides, Peroxides



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**Hazardous decomposition products**

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

Carbon monoxide and carbon dioxide.

**Additional information**

No decomposition if stored and applied as directed.

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**11. Toxicological information**

**Empirical data on effects on humans**

Harmful by inhalation.

Irritating to eyes and skin.

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

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**12. Ecological information**

**Further information**

Do not flush into surface water or sanitary sewer system.

Hazard to waters

Product is toxic to fish and their nutrient animals.

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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 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         | 3    |
| Classification code : | F1   |
| Hazard-no.            | 30   |
| UN number             | 1866 |
| Hazard label          | 3    |
| ADR/RID packing group | III  |
| Limited quantity      | LQ 7 |



**Description of the goods**

Resin solution

**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: D/E

Transport category: 3

**Inland waterways transport**

**Marine transport**

|                    |             |
|--------------------|-------------|
| IMDG code          | 3           |
| UN number          | 1866        |
| Marine pollutant   | No          |
| EmS                | F-E; S-E    |
| IMDG packing group | III         |
| Limited quantity : | 5 L / 30 kg |
| Hazard label       | 3           |

**Description of the goods**

RESIN SOLUTION

**Other applicable information (marine transport)**

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

**Air transport**

|                                       |             |
|---------------------------------------|-------------|
| ICAO/IATA-DGR                         | 3           |
| UN/ID number                          | 1866        |
| Hazard label                          | 3           |
| IATA-packing instructions - Passenger | 309         |
| IATA-max. quantity - Passenger        | 60 L        |
| IATA-packing instructions - Cargo     | 310         |
| IATA-max. quantity - Cargo            | 220 L       |
| ICAO packing group                    | III         |
| Limited quantity Passenger            | Y309 / 10 L |

**Description of the goods**

RESIN SOLUTION

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**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

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

Styrene

**R phrases**

- 10 Flammable.
- 20 Harmful by inhalation.
- 36/38 Irritating to eyes and skin.

**S phrases**

- 23 Do not breathe vapour.
- 35 This material and its container must be disposed of in a safe way.
- 51 Use only in well-ventilated areas.

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**Special labelling for certain preparations**

Contains "Fettsäuren, C6-C19, verzweigt, Co(2+)-salze". May produce an allergic reaction.

**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)

< 5 %; < 90 g/l

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**16. Other information**

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

- 10 Flammable.
- 20 Harmful by inhalation.
- 22 Harmful if swallowed.
- 36/38 Irritating to eyes and skin.
- 38 Irritating to skin.
- 43 May cause sensitization by skin contact.

**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.)*