



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

### **Identification of the substance or preparation**

TIP TOP CHEMOLINE 8 SOLUTION

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

525 4167, 525 4180, 525 4190

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

Adhesive

### **Company/undertaking identification**

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## **2. Hazards identification**

### **Classification**

Indications of danger : Highly flammable, Harmful

R-phrases :

Highly flammable.

Harmful by inhalation and in contact with skin.

Irritating to eyes and skin.

May cause sensitization by skin contact.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Possible risk of harm to the unborn child.

## **3. Composition/information on ingredients**

### **Chemical characterization**

( preparation )

Preparation in organic solvents

### **Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
203-625-9	108-88-3	Toluene	20 - 40 %	F, Repr. Cat. 3, Xn, Xi R11-63-48/20-65-38-67
205-500-4	141-78-6	Ethyl acetate	30 - 40 %	F, Xi R11-36-66-67
215-535-7	1330-20-7	Xylene (mixed isomers)	10 - 20 %	Xn, Xi R10-20/21-38
500-033-5	25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	< 2,5 %	Xi, N R36/38-43-51-53

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.



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**After inhalation**

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

In the event of symptoms refer for medical treatment.

**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 a physician.

**After ingestion**

Summon a doctor immediately.

Do not induce vomiting.

Induce vomiting only upon the advice of a physician.

Immediately give plenty of water (if possible charcoal slurry).

Attention. Beware, danger of aspiration.

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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 arriving from substance or preparation itself, combustion products, resulting gases**

Fire may produce:

Carbon monoxide, carbon dioxide, sulphur oxides and nitrogen oxides (NO<sub>x</sub>).

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

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.

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.

Keep away sources of ignition.

**Environmental precautions**

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.

**Additional information**

Clean contaminated surface thoroughly.

**7. Handling and storage****Handling****Advice on safe handling**

Keep container tightly closed.

Use only in area provided with appropriate exhaust ventilation.

Avoid contact with skin, eyes and clothing.

**Advice on protection against fire and explosion**

Keep product and empty container away from heat and sources of ignition.

Pay attention to anti-explosion rules.

Do not smoke.

Take precautionary measures against static discharges.

**Storage****Requirements for storage rooms and vessels**

Keep containers tightly closed in a cool, well-ventilated place.

**Advice on storage compatibility**

Incompatible with oxidizing agents.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**Storageclass (VCI)**

3 A

**8. Exposure controls/personal protection****Exposure limit values****Exposure limits (EH40)**

CAS No.	Substance	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
	Ethyl acetate	400	-		STEL (15 min)	WEL
108-88-3	Toluene	50	191		TWA (8 h)	WEL
	Toluene	150	574		STEL (15 min)	WEL
1330-20-7	Xylene, o-, m-, p- or mixed isomers	100	441		TWA (8 h)	WEL
	Xylene, o-, m-, p- or mixed isomers	150	662		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.

Avoid contact with eyes and skin.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

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**

Splash protection:

Protective gloves resistant to chemicals made off butyl, Minimum coat thickness 0,7 mm, Permeation resistance (wear duration) > 30 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.

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.

**Eye protection**

Eye wash bottle with pure water.

Tightly fitting goggles

**Skin protection**

Long sleeved clothing.

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

Physical state	Liquid
Colour	Transparent
Odour	Aromatic

**Important health, safety and environmental information**

		Test method
<b>Changes in the physical state</b>		
Boiling point	> 76 °C	
Flash point	- 5 °C	(Ethyl acetate)
<b>Flammability</b>		
Lower explosion limits	1,2	
Ignition temperature	> 430 °C	
Vapour pressure :	97 hPa	
Density (at 20 °C) :	0,92 g/cm <sup>3</sup>	
Water solubility :	Immiscible	
at (20 °C)		
Viscosity / dynamic :	1000 mPa·s	
Viscosity / kinematic :	> 30 s mm <sup>2</sup> /s	3 DIN/ISO 2431
at (23 °C)		
<b>Solvent content</b>		
< 90 %		

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

To avoid thermal decomposition, do not overheat.

Vapours may form explosive mixture with air.

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Carbon monoxide, carbon dioxide, sulphur oxides, and nitrogen oxides (NO<sub>x</sub>).

**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 and in contact with skin.

Irritating to eyes and skin.

May cause sensitization by skin contact.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

May cause harm to the unborn child.

Inhalation of vapours in high concentration can cause narcotic effects.

Inhalation of high vapour concentration 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.

Attention. Beware, danger of aspiration!

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## **12. Ecological information**

### **Further information**

Do not flush into surface water or sanitary sewer system.

Hazard to waters

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## **13. Disposal considerations**

### **Advice on disposal**

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

### **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.

Empty containers should be taken for local recycling, recovery or waste disposal.

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## **14. Transport information**

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

ADR/RID class	3
Classification code :	F1
Hazard-no.	33
UN number	1133
Hazard label	3
ADR/RID packing group	II
Limited quantity	LQ 6



## Description of the goods

Adhesives

### Remarks (land transport)

LQ 6: combination packaging: 5 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass).

### Inland waterways transport

#### Marine transport

IMDG code	3
UN number	1133
Marine pollutant	No
EmS	F-E; S-D
IMDG packing group	II
Limited quantity :	5 L / 30 kg
Hazard label	3

## Description of the goods

ADHESIVES

### Remarks (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	1133
Hazard label	3
IATA-packing instructions - Passenger	305
IATA-max. quantity - Passenger	5 L
IATA-packing instructions - Cargo	307
IATA-max. quantity - Cargo	60 L
ICAO packing group	II
Limited quantity Passenger	Y305 / 1L

## Description of the goods

ADHESIVES

## 15. Regulatory information

### Labelling

Indication of danger F - Highly flammable; Xn - Harmful

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

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

Toluene

Xylene (mixed isomers)

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

### **R phrases**

11	Highly flammable.
43	May cause sensitization by skin contact.
63	Possible risk of harm to the unborn child.
20/21	Harmful by inhalation and in contact with skin.
36/38	Irritating to eyes and skin.
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.



### S phrases

- 16 Keep away from sources of ignition - No smoking.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 33 Take precautionary measures against static discharges.
- 35 This material and its container must be disposed of in a safe way.
- 36/37 Wear suitable protective clothing and gloves.

### 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 1999/13/EC (VOC)	2 - water contaminating < 90 %

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## 16. Other information

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

- 10 Flammable.
- 11 Highly flammable.
- 36 Irritating to eyes.
- 38 Irritating to skin.
- 43 May cause sensitization by skin contact.
- 51 Toxic to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.
- 63 Possible risk of harm to the unborn child.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.
- 20/21 Harmful by inhalation and in contact with skin.
- 36/38 Irritating to eyes and skin.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

### Other data

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.)*