



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

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

TIP TOP CEMENT SC 2000

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

525 2012, 525 2029, 525 2050, 525 2130, 525 2153, 525 2160, 525 2161, 525 2191, 525 2193, 525 2194, 525 2232, 525 2249, 525 4003, 525 4010, 525 4027, 525 4034, 525 4041, 525 4058

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

Adhesive

### **Company/undertaking identification**

REMA TIP TOP GmbH

Gruber Straße 63

D-85586 Poing

Telephone : ++49 (0) 8121 / 707 - 0

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 : Toxic, Dangerous for the environment

R-phrases:

Irritating to eyes and skin.

May cause cancer.

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

Vapours may cause drowsiness and dizziness.

Possible risks of irreversible effects.

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

### **Chemical characterization ( Mixture )**

Preparation with trichloroethylene

#### **Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
201-167-4	79-01-6	trichloroethene, trichloroethylene	< 90 %	Carc. Cat. 2, Muta. Cat. 3, Xi R45-68-67-36/38-52-53
215-222-5	1314-13-2	zinc oxide	< 5 %	N R50-53
232-475-7	8050-09-7	Colophonium	< 1 %	R43

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.

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.

Attention. Beware, danger of aspiration.

Summon a doctor immediately.

Immediately give plenty of water, if possible charcoal slurry.

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**5. Fire-fighting measures**

**Suitable extinguishing media**

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

Product does not burn, fire-extinguishing activities according to surrounding.

**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.

Chlorine and traces of phosgene.

Hydrogen chloride gas.

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

**Additional information**

Keep away from heat and sources of ignition.

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**

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.

Care for thoroughly room ventilation, if necessary suck off at workplace.

Avoid contact with skin, eyes and clothing.

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

Keep away from heat and sources of ignition.

## **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.

Aluminium powder

Alkaline metals and earth alkaline metals.

Alkaline leaches

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

Keep away from food, drink and animal feeding stuffs.

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

### **Exposure limit values**

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

CAS-No.	Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
8050-09-7	Rosin-based solder flux fume	-	0.05		TWA (8 h)	WEL
		-	0.15		STEL (15 min)	WEL
79-01-6	Trichloroethylene	100	550		TWA (8 h)	WEL
		150	820		STEL (15 min)	WEL
1314-13-2	Zinc oxide, fume (OLD)	-	5		TWA (8 h)	OES
		-	10		STEL (15 min)	OES

### **Occupational exposure controls**

Ensure adequate ventilation, especially in confined areas.

### **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.

Take off immediately all contaminated clothing.

### **Respiratory protection**

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

### **Hand protection**

Protective gloves resistant to chemicals made off viton, Minimum coat thickness 0,7 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Vitoject 890> 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 : Different  
Odour : Sweetish

### Important health, safety and environmental information

#### Changes in the physical state

Boiling point : 90 °C approx.  
Flash point : n.a. \*)  
Lower explosion limits : 7,9 vol. %  
Upper explosion limits :  
Vapour pressure : 77 hPa  
(at 20 °C)  
Density : 1,45 g/cm<sup>3</sup>  
Water solubility : Immiscible  
(at 20 °C)  
Viscosity / dynamic : 3000 mPa·s  
Vapour density : 4,54

#### Solvent content

< 90 %

### Other information

Ignition temperature : 410 °C

\*\*) According to PTB instructions, trichloroethylene has no flashpoint; however, vapour and air mixtures are flammable under a stronger energy influx."

## 10. Stability and reactivity

### Conditions to avoid

Above 120°C, a thermic decomposition may take place.

### Materials to avoid

Alkaline metals and alkaline earth metals., Bases, Oxidizing agents., Aluminium powder

### Hazardous decomposition products

Chlorine and traces of phosgene.

Hydrogen chloride gas

Carbon monoxide and carbon dioxide.

### Additional information

No decomposition if stored and applied as directed.

## 11. Toxicological information

### Empirical data on effects on humans

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

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Revision date: 20.05.2010

Revision no.: 1,19

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00156-0002



May cause cancer.

Vapours may cause drowsiness and dizziness.

Possible risk of irreversible effects.

Irritating to eyes and skin.

Components of the product may be absorbed into the body through the skin. (skin absorption).

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

Effects of breathing high concentrations of vapour may include

Headache, dizziness, weakness, unconsciousness.

Hazard of lung oedema.

Skin contact or inhalation of solvents contained in this product may cause irritation of skin, eyes and mucous membranes.

## **12. Ecological information**

### **Further information**

Do not flush into surface water or sanitary sewer system.

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

Severe hazard to waters

## **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**

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

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.

## **14. Transport information**

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

UN number : 1710

ADR/RID class : 6.1

Classification code : T1

Warning plate

Hazard-no. : 60

Hazard label : 6.1

ADR/RID packing group : III

Limited quantity : LQ 7

### **Description of the goods**

TRICHLOROETHYLENE, Solution

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### 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: 2

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, transition period ends 31.12.2010.

### Marine transport

UN number :	1710
IMDG code :	6.1
Marine pollutant :	Yes
Hazard label :	6.1
IMDG packing group :	III
EmS :	F-A; S-A
Limited quantity :	5 L / 30 kg

### Description of the goods

TRICHLOROETHYLENE SOLUTION

### Other applicable information (marine transport)

Limited quantities (chapter 3.4): combination packaging: 1 l / 30 kg (total gross mass); trays: 1 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.

### Air transport

UN/ID number :	1710
ICAO/IATA-DGR :	6.1
Hazard label :	6.1
ICAO packing group :	III
Limited quantity Passenger :	Y605 / 2 L
IATA-packing instructions - Passenger :	605
IATA-max. quantity - Passenger :	60 L
IATA-packing instructions - Cargo :	612
IATA-max. quantity - Cargo :	220 L

### Description of the goods

TRICHLOROETHYLENE SOLUTION

## 15. Regulatory information

### Labelling

#### Additional advice on labelling

According to EC-regulations the product is to be labelled as follows:

Danger symbols :

T - Toxic; N - Dangerous for the environment



T - Toxic



N - Dangerous for the environment

#### Hazardous components which must be listed on the label

Trichloroethylene

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### R phrases

- 36/38 Irritating to eyes and skin.
- 45 May cause cancer.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 67 Vapours may cause drowsiness and dizziness.
- 68 Possible risks of irreversible effects.

### S phrases

- 53 Avoid exposure - obtain special instructions before use.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 60 This material and its container must be disposed of as hazardous waste.
- 61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

### Special labelling for certain preparations

Restricted to professional users.

Contains Colophony. May produce an allergic reaction.

### EU regulatory information

1999/13/EC (VOC) : < 90 %

### National regulatory information

Employment restrictions : Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D) : 3 - highly water contaminating

### 16. Other information

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

- 36/38 Irritating to eyes and skin.
- 43 May cause sensitization by skin contact.
- 45 May cause cancer.
- 50 Very toxic to aquatic organisms.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 52 Harmful to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.
- 67 Vapours may cause drowsiness and dizziness.
- 68 Possible risks of irreversible effects.

#### 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)

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