



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

Identification of the substance or preparation

TIP TOP CEMENT TC 5002

Art.-No.:

525 2790, 525 2800, 525 2810

Use of the substance/preparation

Adhesive

Company/undertaking identification

REMA TIP TOP 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 : Highly flammable, Harmful

R-phrases:

Highly flammable.

Irritating to skin.

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

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

Possible risk of harm to the unborn child.

Vapours may cause drowsiness and dizziness.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
203-625-9	108-88-3	Toluene	< 70 %	F, Xn, Xn, Xi R11-63-48/20-65-38-67
215-222-5	1314-13-2	Zinc oxide	< 2,5 %	N R50-53
203-118-2	103-50-4	dibenzylether	< 1 %	N R51-53

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.

After inhalation



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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.

Seek medical treatment by eye specialist.

After ingestion

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

Do not induce vomiting.

Summon a doctor immediately.

The decision whether to induce vomiting or not is to be taken by a physician.

Attention. Beware, danger of aspiration.

5. Fire-fighting measures

Suitable extinguishing media

Foam, carbon dioxide (CO₂), 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, carbon dioxide and sulphur oxides.

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.

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.

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.



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.

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

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.

Keep away from heat and sources of ignition.

Advice on storage compatibility

Incompatible with oxidizing agents.

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/m ³	mg/m ³	F/ml	Category	Origin
108-88-3	Toluene	50	191		TWA (8 h)	WEL
		100	384		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.

Pay attention to explosion protection guidelines.

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).

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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 : Viscous liquid

Colour : Black

Odour : Aromatic

Important health, safety and environmental information

Changes in the physical state

Boiling point : 110 °C (*)

Flash point : 4 °C (*)

Lower explosion limits : 1,2 vol. % (*)

Upper explosion limits : 8 vol. % (*)

Density (at 20 °C) : 0,92 g/cm³

Water solubility : Immiscible

Viscosity / dynamic : 2000 mPa·s

Flow time : > 35 s
(at 23 °C) 6 mm

Solvent content

< 80 %

Other information

Ignition temperature : 535 °C (*)

(*) Toluene

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.

Additional information

No decomposition if stored and applied as directed.

11. Toxicological information



Empirical data on effects on humans

Irritating to skin.

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

May cause harm to the unborn child.

Vapours may cause drowsiness and dizziness.

Contact with eyes may cause irritation.

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!

12. Ecological information

Further information

Do not flush into surface water or sanitary sewer system.

Hazardous water pollutant.

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

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.

14. Transport information

Land transport (ADR/RID)

UN number : 1133

ADR/RID class : 3

Classification code : F1

Warning plate

Hazard-no. : 33

Hazard label : 3

ADR/RID packing group : III

Limited quantity : LQ 7

Description of the goods

Adhesives

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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: D/E

Transport category: 3

Marine transport

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

Description of the goods

ADHESIVES

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).

Receptacle max. 30 L, IMDG Code subsection 2.3.2.3

Air transport

UN/ID number :	1133
ICAO/IATA-DGR :	3
Hazard label :	3
ICAO packing group :	III
Limited quantity Passenger :	Y309 / 10 L
IATA-packing instructions - Passenger :	309
IATA-max. quantity - Passenger :	30 L (*)
IATA-packing instructions - Cargo :	310
IATA-max. quantity - Cargo :	30 L (*)

Description of the goods

ADHESIVES

Other applicable information (air transport)

*) [3.3.3.1 IATA DGR]

15. Regulatory information**Labelling****Additional advice on labelling**

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

Danger symbols : F - Highly flammable; Xn - Harmful



F - Highly flammable

Xn - Harmful

Hazardous components which must be listed on the label

Toluene

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R phrases

- 11 Highly flammable.
- 38 Irritating to skin.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 63 Possible risk of harm to the unborn child.
- 67 Vapours may cause drowsiness and dizziness.

S phrases

- 16 Keep away from sources of ignition - No smoking.
- 25 Avoid contact with eyes.
- 35 This material and its container must be disposed of in a safe way.
- 36/37 Wear suitable protective clothing and gloves.

EU regulatory information

1999/13/EC (VOC) : < 70 %

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

16. Other information

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

- 11 Highly flammable.
- 38 Irritating to skin.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 50 Very toxic to aquatic organisms.
- 51 Toxic to aquatic organisms.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 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.
- 67 Vapours may cause drowsiness and dizziness.

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.)