

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP CEMENT PC-2

Revision date: 14.04.2023

Product code: 00156-0518

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

TIP TOP CEMENT PC-2

#### Art.-No.

532 3182, 532 3193, 532 3271, 532 3312, 532 3327, 532 3329

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Adhesive

### 1.3. Details of the supplier of the safety data sheet

Company name: REMA TIP TOP AG

Street: Gruber Strasse 65

Place: D-85586 Poing

Telephone: +49 (0) 8121 / 707 - 100

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

### 1.4. Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
Public Poisons Information Line: +353 (0) 1 809 2166 (8am-10pm 7 days a week)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Skin Irrit. 2; H315

Eye Irrit. 2; H319

Skin Sens. 1; H317

Muta. 2; H341

Carc. 1B; H350

STOT SE 3; H336

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

#### Hazard components for labelling

Trichloroethylene

#### Signal word:

Danger

#### Pictograms:



#### Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H412	Harmful to aquatic life with long lasting effects.

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**Precautionary statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing vapour.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P273	Avoid release to the environment.

**Special labelling of certain mixtures**

Restricted to professional users.

**2.3. Other hazards**

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Preparation with trichloroethylene

**Hazardous components**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
79-01-6	Trichloroethylene			< 90 %
	201-167-4	602-027-00-9	01-2119490731-36	
	Carc. 1B, Muta. 2, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3, Aquatic Chronic 3; H350 H341 H315 H319 H317 H336 H412			
108-88-3	Toluene			< 1 %
	203-625-9	601-021-00-3	01-2119471310-51	
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H225 H361d H315 H319 H336 H373 H304 H412			

Full text of H and EUH statements: see section 16.

**Further Information**

SVHC substance [Regulation (EC) No 1907/2006, Article 57]: Trichloroethylene

**SECTION 4: First aid measures****4.1. Description of 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.  
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.  
Attention. Beware, danger of aspiration.  
Summon a doctor immediately.  
Immediately give plenty of water, if possible charcoal slurry.

#### 4.2. Most important symptoms and effects, both acute and delayed

May cause cancer.  
Suspected of causing genetic defects.  
May cause drowsiness or dizziness.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.  
Product does not burn, fire-extinguishing activities according to surrounding.

##### Unsuitable extinguishing media

Full water jet.

#### 5.2. Special hazards arising from the substance or mixture

Fire may produce:  
carbon monoxide and carbon dioxide  
Chlorine and traces of phosgene.  
Hydrogen chloric gas.

#### 5.3. Advice for firefighters

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.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### General advice

Ensure adequate ventilation.  
Keep away noninvolved persons.  
Get unprotected persons to safety.

##### For non-emergency personnel

Do not breathe vapours.  
Avoid contact with skin, eyes and clothing.

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**For emergency responders**

In case of vapour formation use respirator.  
Use personal protective clothing.

**6.2. Environmental precautions**

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

**6.3. Methods and material for containment and cleaning up****For containment**

Prevent spread over a wide area (e.g. by containment or oil barriers).

**For cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).  
Shovel into suitable container for disposal.

**6.4. Reference to other sections**

Observe protective instructions (see Sections 7 and 8).  
Informations for disposal look up chapter 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe 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.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

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

**Hints on joint storage**

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.

**7.3. Specific end use(s)**

Adhesive

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
108-88-3	Toluene	50	192		TWA (8 h)	
		100	384		STEL (15 min)	
79-01-6	Trichloroethylene	10	54.7		TWA (8 h)	
		30	164.1		STEL (15 min)	

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#### Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
79-01-6	Trichloroethylene	TCA	20 mg/L	Urine	By the end of the last shift of a workweek/ shift period
108-88-3	Toluene	Toluene	0.03 mg/L	Urine	End of shift

#### 8.2. Exposure controls

##### Appropriate engineering 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.

##### Eye/face protection

- Tightly fitting goggles (EN 166).
- Eye wash bottle with pure water (EN 15154).

##### 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.

##### Skin protection

Long sleeved clothing (DIN EN ISO 6530)

##### Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Colourless
Odour:	Sweetish

	Test method
pH-Value:	n. d.
<b>Changes in the physical state</b>	
Melting point/freezing point:	- 86,4 °C *)
Boiling point or initial boiling point and boiling range:	87 °C *)
Sublimation point:	n.a.
Softening point:	n. d.
Flash point:	n.a. **)

#### Flammability

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Solid/liquid: n.a.

**Explosive properties**

The product is not explosive.

Lower explosion limits: 7,9 vol. % \*)

Upper explosion limits: 90 vol. % \*)

Auto-ignition temperature: 410 °C \*)

**Self-ignition temperature**

Solid: n.a.

Gas: n.a.

Decomposition temperature: n. d.

**Oxidizing properties**

Not oxidising.

Vapour pressure:  
(at 20 °C) 77 hPa \*)Density: 1,35 g/cm<sup>3</sup>

Bulk density: n.a.

Water solubility:  
(at 20 °C) Immiscible**Solubility in other solvents**

n. d.

Partition coefficient n-octanol/water: n. d.

Viscosity / dynamic: 10000 mPa·s

Viscosity / kinematic: n. d.

Flow time: n. d.

Relative vapour density: 4,54 \*)

Evaporation rate: n. d.

Solvent separation test: n. d.

Solvent content: &lt; 90 %

**9.2. Other information**

\*) Trichloroethylene

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

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reactions with alkali metals.

Reactions with earth alkali metals.

Reactions with oxidising agents.

**10.4. Conditions to avoid**

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

**10.5. Incompatible materials**

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

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#### **10.6. Hazardous decomposition products**

No hazardous decomposition products known.  
Fire may produce:  
Chlorine and traces of phosgene.  
Hydrogen chloride gas  
Carbon monoxide and carbon dioxide

### SECTION 11: Toxicological information

#### **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

##### **Acute toxicity**

Based on available data, the classification criteria are not met.  
Trichloroethylene  
LD50/oral/rat: 5400 mg/kg  
LD50/dermal/rabbit: > 2000 mg/kg  
LC50/inhalativ/rat: 12500 ppm/4h

##### **Irritation and corrosivity**

Causes skin irritation.  
Causes serious eye irritation.

##### **Sensitising effects**

May cause an allergic skin reaction. (Trichloroethylene)

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing genetic defects. (Trichloroethylene)  
May cause cancer. (Trichloroethylene)  
Reproductive toxicity: Based on available data, the classification criteria are not met.

##### **STOT-single exposure**

May cause drowsiness or dizziness. (Trichloroethylene)

##### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

##### **Aspiration hazard**

Based on available data, the classification criteria are not met.

##### **Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

#### **11.2. Information on other hazards**

##### **Endocrine disrupting properties**

No data available

##### **Other information**

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.

### SECTION 12: Ecological information

#### **12.1. Toxicity**

Trichloroethylene  
LC50/Pimephales promelas/ 96 h = 42,4 mg/l  
EC50/Daphnia magna/48 h = 20,8 mg/l  
EC50/Algae/96 h = 36,5 mg/l

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Harmful to aquatic life with long lasting effects.

#### **12.2. Persistence and degradability**

Trichloroethylene

Biodegradable (OECD): 2,4% (14 d) [OECD 301C]

Not readily biodegradable.

#### **12.3. Bioaccumulative potential**

Trichloroethylene

Low bio-accumulation can be estimated because of low log Po/w. (Log Pow: 2,53)

#### **12.4. Mobility in soil**

Trichloroethylene

High mobility in soil.

#### **12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### **12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### **12.7. Other adverse effects**

Severe hazard to waters

#### **Further information**

Do not flush into surface water or sanitary sewer system.

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Disposal recommendations**

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

##### **List of Wastes Code - 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 hazardous substances; 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.

### SECTION 14: Transport information

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

##### **14.1. UN number:**

UN 1710

##### **14.2. UN proper shipping name:**

TRICHLOROETHYLENE, Solution

##### **14.3. Transport hazard class(es):**

6.1

##### **14.4. Packing group:**

III

Hazard label:

6.1





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Classification code:	T1
Limited quantity:	5 L / 30 kg
Excepted quantity:	E1
Transport category:	2
Hazard No:	60
Tunnel restriction code:	E

#### Inland waterways transport (ADN)

<b><u>14.1. UN number:</u></b>	UN 1710
<b><u>14.2. UN proper shipping name:</u></b>	TRICHLOROETHYLENE, Solution
<b><u>14.3. Transport hazard class(es):</u></b>	6.1
<b><u>14.4. Packing group:</u></b>	III
Hazard label:	6.1



Classification code:	T1
Special Provisions:	802
Limited quantity:	5 L / 30 kg
Excepted quantity:	E1

#### Marine transport (IMDG)

<b><u>14.1. UN number:</u></b>	UN 1710
<b><u>14.2. UN proper shipping name:</u></b>	TRICHLOROETHYLENE SOLUTION
<b><u>14.3. Transport hazard class(es):</u></b>	6.1
<b><u>14.4. Packing group:</u></b>	III
Hazard label:	6.1



Marine pollutant:	No
Special Provisions:	-
Limited quantity:	5 L / 30 kg
Excepted quantity:	E1
EmS:	F-A, S-A
Segregation group:	10 - liquid halogenated hydrocarbons

#### Air transport (ICAO-TI/IATA-DGR)

<b><u>14.1. UN number:</u></b>	UN 1710
<b><u>14.2. UN proper shipping name:</u></b>	TRICHLOROETHYLENE SOLUTION
<b><u>14.3. Transport hazard class(es):</u></b>	6.1
<b><u>14.4. Packing group:</u></b>	III
Hazard label:	6.1



Limited quantity Passenger:	2 L	
Passenger LQ:	Y642	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:		655
IATA-max. quantity - Passenger:		60 L



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IATA-packing instructions - Cargo: 663  
IATA-max. quantity - Cargo: 220 L

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

#### **14.6. Special precautions for user**

Handle in accordance with good industrial hygiene and safety practice.

#### **14.7. Maritime transport in bulk according to IMO instruments**

The transport takes place only in approved and appropriate packaging.

### SECTION 15: Regulatory information

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### **EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):  
Trichloroethylene

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 48, Entry 75

2004/42/EC (VOC): &lt; 85 %

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

##### **National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 3 - highly hazardous to water

##### **Additional information**

Consider Chemical prohibition regulation.

#### **15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out.

### SECTION 16: Other information

#### **Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
IMDG = International Maritime Code for Dangerous Goods  
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization  
MARPOL = International Convention for the Prevention of Pollution from Ships  
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

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GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals  
CAS = Chemical Abstract Service  
EN = European norm  
ISO = International Organization for Standardization  
DIN = Deutsche Industrie Norm  
PBT = Persistent Bioaccumulative and Toxic  
vPvB = Very Persistent and very Bio-accumulative  
LD = Lethal dose  
LC = Lethal concentration  
EC = Effect concentration  
IC = Median immobilisation concentration or median inhibitory concentration

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Muta. 2; H341	Calculation method
Carc. 1B; H350	Calculation method
STOT SE 3; H336	Calculation method
Aquatic Chronic 3; H412	Calculation method

**Relevant H and EUH statements (number and full text)**

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting 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.)*