

# Safety Data Sheet

according to 29 CFR 1910.1200(g)

## TIP TOP CEMENT PC-4

Revision date: 10/27/2022

Product code: 00156-0115

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### 1. Identification

#### Product identifier

TIP TOP CEMENT PC-4

#### Art.-No.

532 0352, 532 0369, 532 0372

#### Recommended use of the chemical and restrictions on use

##### Use of the substance/mixture

Adhesive

#### 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

#### Emergency phone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
(USA domestic) 1 800 535 5053 or international (001) 352 323 3500

### 2. Hazard(s) identification

#### Classification of the chemical

##### **29 CFR Part 1910.1200**

Flammable liquids: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2A

Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)

#### Label elements

##### **29 CFR Part 1910.1200**

Signal word: Danger

Pictograms:



#### Hazard statements

Highly flammable liquid and vapor

Causes serious eye irritation

May cause drowsiness or dizziness

#### Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Store in a well-ventilated place. Keep cool.

#### Hazards not otherwise classified

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

Vapours may form explosive mixture with air.

### 3. Composition/information on ingredients



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#### Mixtures

##### Chemical characterization

Preparation in butanone

#### Hazardous components

CAS No	Components	Quantity
78-93-3	Butanone	< 85 %

### 4. First-aid measures

#### Description of first aid measures

##### General information

Remove contaminated soaked clothing immediately.  
If you feel unwell, seek medical advice.

##### After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.  
Refer for medical treatment.

##### After contact with skin

Wash off 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

Do not induce vomiting.  
Summon a doctor immediately.  
Rinse out mouth and give plenty of water to drink.  
Never give anything by mouth to an unconscious person.  
Induce vomiting only upon the advice of a physician.

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

Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.

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

Treat symptoms.

### 5. Fire-fighting measures

#### Extinguishing media

##### Suitable extinguishing media

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

##### Unsuitable extinguishing media

Full water jet.

#### Specific hazards arising from the chemical

Fire may produce:  
Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

#### Special protective equipment and precautions for fire-fighters

Use breathing apparatus with independent air supply.  
Protective suit.

#### Additional information

Vapours are heavier than air and spread along ground.



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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, protective equipment and emergency procedures

#### General advice

Ensure adequate ventilation.

Keep away sources of ignition.

Keep away noninvolved persons.

#### For non-emergency personnel

Do not breathe vapours.

Avoid contact with skin, eyes and clothing.

#### For emergency responders

In case of vapour formation use respirator.

Use personal protective clothing.

### Environmental precautions

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

### 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.

### Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal look up chapter 13.

## 7. Handling and storage

### Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed.

When using do not eat, drink or smoke.

Use only in thoroughly ventilated areas.

Avoid contact with skin, eyes and clothing.

#### 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.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

#### Hints on joint storage

Incompatible with oxidizing agents.

#### Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

## 8. Exposure controls/personal protection



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### Control parameters

### Exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
78-93-3	2-Butanone (Methyl ethyl ketone)	200	590		TWA (8 h)	PEL
78-93-3	2-Butanone	200	590		TWA (8 h)	REL
		300	885		STEL (15 min)	REL
78-93-3	Methyl ethyl ketone	200			TWA (8 h)	ACGIH-2022
		300			STEL (15 min)	ACGIH-2022

### Biological Exposure Indices (BEI-ACGIH)

CAS No	Substance	Determinant	Value	Test material	Sampling time
78-93-3	METHYL ETHYL KETONE	Methyl ethyl ketone	2 mg/L	urine	End of shift

### Exposure controls

#### **Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

#### **Protective and hygiene measures**

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.

#### **Eye/face protection**

Eye wash bottle with pure water.

Tightly fitting goggles.

#### **Hand protection**

Protective gloves resistant to chemicals made of butyl, Minimum coat thickness 0,7 mm, Permeation resistance (wear duration) > 240 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.

#### **Skin protection**

Long sleeved clothing.

#### **Respiratory protection**

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

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state: Liquid  
Color: Yellowish  
Odor: Like ketone  
pH-Value: n.d.

#### **Changes in the physical state**

Melting point/freezing point: n.d.

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Boiling point or initial boiling point and boiling range: approx. 80 °C

Sublimation point: n.a.

Softening point: n.d.

Flash point: - 4 °C

Sustaining combustion: Sustaining combustion

**Flammability**

Solid/liquid: n.a.

Gas: n.a.

**Explosive properties**

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated

Lower explosion limits: 1,8 vol. %

Upper explosion limits: n.d.

Auto-ignition temperature: 514 °C

**Self-ignition temperature**

Solid: n.a.

Gas: n.a.

Decomposition temperature: n.d.

**Oxidizing properties**

Not oxidising.

Vapor pressure: approx. 101 hPa  
(at 20 °C)Density (at 20 °C): 0,83 g/cm<sup>3</sup>

Bulk density: n.a.

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

n.d.

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

Viscosity / dynamic: n.d.

Viscosity / kinematic: n.d.

Flow time: n.d.

Relative vapour density: n.d.

Evaporation rate: n.d.

Solvent separation test: 0 %

Solvent content: &lt; 85 %

**Other information**

No data available

**10. Stability and reactivity****Reactivity**

No decomposition if stored and applied as directed.

**Chemical stability**

Stability: Stable

Stable under normal conditions.



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#### Possibility of hazardous reactions

Hazardous reactions: May occur  
Reactions with oxidizing agents.

#### Conditions to avoid

Vapour/air mixtures are explosive at intensive warming.  
Heating can release vapours which can be ignited.

#### Incompatible materials

Oxidizing agents

#### Hazardous decomposition products

No hazardous decomposition products known.  
Fire may produce:  
Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)

## 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Based on available data, the classification criteria are not met.  
No toxicological data available.  
Butanone  
LD50/oral/rat: 3300 mg/kg  
LD50/dermal/rabbit: 5000 mg/kg  
LC50/inhalativ/rat: 34,5 mg/l/4 h

#### **Irritation and corrosivity**

Causes serious eye irritation  
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### **Sensitizing effects**

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

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

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

#### **Specific target organ toxicity (STOT) - single exposure**

May cause drowsiness or dizziness (Butanone)

#### **Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

#### **Aspiration hazard**

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

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

This product is classified in accordance with the GHS regulations.

### Information on other hazards

#### **Endocrine disrupting properties**

No data available

#### **Other information**

Concentration above the admissible concentration at the workplace may cause dizziness, headache and inebriation.  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

## 12. Ecological information

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#### Ecotoxicity

Ecological data are not available.

Butanone

LC50/Fish/96 h &gt; 3000 mg/l

EC50/Daphnia magna/48 h = 1382 mg/l

#### Persistence and degradability

No data available

Butanone

Readily biodegradable (to OECD criteria)

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### 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.

#### Other adverse effects

Slightly water hazardous.

#### Further information

Ecological injuries are not known or expected under normal use.

Do not flush into surface water or sanitary sewer system.

### 13. Disposal considerations

#### Waste treatment methods

##### **Disposal recommendations**

Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.  
Where possible recycling is preferred to disposal.

##### **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

#### **US DOT 49 CFR 172.101**

<b><u>UN number or ID number:</u></b>	UN 1133
<b><u>Proper shipping name:</u></b>	Adhesives
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	II
Hazard label:	3



#### **Marine transport (IMDG)**

<b><u>UN number:</u></b>	UN 1133
<b><u>UN proper shipping name:</u></b>	Adhesives
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	II

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Hazard label: 3



Marine pollutant: No  
Limited quantity: 5 L / 30 kg  
Excepted quantity: E2  
EmS: F-E, S-D

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

**UN number:** UN 1133  
**UN proper shipping name:** ADHESIVES  
**Transport hazard class(es):** 3  
**Packing group:** II  
Hazard label: 3



Limited quantity Passenger: 1 L  
Passenger LQ: Y341  
Excepted quantity: E2  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L

### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The transport takes place only in approved and appropriate packaging.

## 15. Regulatory information

### U.S. Regulations

#### National Inventory TSCA

All of the components are listed on the TSCA inventory.

#### National regulatory information

SARA Section 304 CERCLA:

Methyl ethyl ketone (78-93-3): Reportable quantity = 5,000 (2270) lbs. (kg)

SARA Section 311/312 Hazards:

Methyl ethyl ketone (78-93-3): Fire hazard, Immediate (acute) health hazard

Clean Air Act Section 112(b):

Methyl ethyl ketone (78-93-3)

### State Regulations

#### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

WARNING: This product can expose you to chemicals including Toluene (developmental), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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#### 16. Other information

##### Hazardous Materials Information Label (HMIS)

Health: 1  
Flammability: 2  
Physical Hazard: 0

##### NFPA Hazard Ratings

Health: 1  
Flammability: 2  
Reactivity: 0  
Unique Hazard:



##### Changes

Revision date: 10/27/2022  
Revision No: 2,4

This data sheet contains changes from the previous version in section(s): 2,6,9,10,11,12,14,15,16.

##### 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

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

##### Other data

The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions.  
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.)*