

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## TIP TOP CEMENT SC 4000

Revision date: 23.07.2021

Product code: 00156-0119

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

#### 1.1. Product identifier

TIP TOP CEMENT SC 4000

##### Art.-No.

517 8009, 525 2509; 525 2516; 525 2523; 525 2530; 525 2554; 525 2592; 525 2602; 525 2619; 525 2633; 525 2657; 525 2688; 525 2695; 525 2704; 525 2705; 525 2712; 525 2729, 525 3254

#### 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

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

##### Hazard components for labelling

Ethyl acetate

Cyclohexane

Signal word:

Danger

Pictograms:



##### Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

##### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapour.



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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P273	Avoid release to the environment.

### Special labelling of certain mixtures

EUH208 Contains Colophony. May produce an allergic reaction.

### 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

Vapours may form explosive mixture with air.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Preparation in organic solvents

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
141-78-6	Ethyl acetate			< 40 %
	205-500-4	607-022-00-5	01-2119475103-46	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
110-82-7	Cyclohexane			< 40 %
	203-806-2	601-017-00-1	01-2119463273-41	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H225 H315 H336 H304 H400 H410			
1314-13-2	Zinc oxide			< 5 %
	215-222-5	030-013-00-7	01-2119463881-32	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			
8050-09-7	Colophony			< 1 %
	232-475-7	650-015-00-7	01-2119480418-32	
	Skin Sens. 1; H317			

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

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
141-78-6	205-500-4	Ethyl acetate	< 40 %	
	dermal: LD50 = > 18000 mg/kg; oral: LD50 = 5620 mg/kg			
110-82-7	203-806-2	Cyclohexane	< 40 %	
	inhalation: LC50 = 14 mg/l (vapours); dermal: LD50 = 2000 mg/kg; oral: LD50 = 12705 mg/kg			



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#### 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.  
Seek medical treatment immediately.

###### **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.  
Never give anything by mouth to an unconscious person.  
Summon a doctor immediately.  
Induce vomiting only upon the advice of a physician.

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

Causes serious eye irritation.  
Causes skin irritation.  
May cause drowsiness or dizziness.  
Attention. Beware, danger of aspiration.

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

Treat symptoms.  
Risk of pulmonary oedema. Keep under medical supervision for at least 48 hours.

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

###### **Suitable extinguishing media**

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

###### **Unsuitable extinguishing media**

Full water jet.

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

Fire may produce:  
carbon monoxide and carbon dioxide  
Hydrogen chloric gas.

##### 5.3. Advice for firefighters

Use breathing apparatus with independent air supply.  
Protective suit.

###### **Additional information**

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.

#### SECTION 6: Accidental release measures



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

##### **General advice**

- Use only explosion-proof equipment.
- Ensure adequate ventilation.
- Remove persons to safety.
- Keep away sources of ignition.

##### **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.

#### **6.2. Environmental precautions**

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

#### **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.
- Keep a good ventilation and air-exhaust at the place of work.
- Avoid contact with skin, eyes and clothing.

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

- Do not smoke - volatile.
- Keep away from heat and sources of ignition.
- Take precautionary measures against static discharges.
- Use only explosion-proof equipment.

#### **7.2. 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.
- Pay attention to anti-explosion rules.

##### **Hints on joint storage**

- Incompatible with oxidizing agents.

##### **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**

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#### Occupational exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
110-82-7	Cyclohexane	200	700		TWA (8 h)	
141-78-6	Ethyl acetate	200	734		TWA (8 h)	
		400	1468		STEL (15 min)	
1314-13-2	Zinc oxide, fume (Respirable Fraction)	-	2		TWA (8 h)	
		-	10		STEL (15 min)	

#### 8.2. Exposure controls

##### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

##### Protective and hygiene measures

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Treat subsequently with skin cream.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothes before re-use.

##### Eye/face protection

Safety goggles with side protection (splash protection) or tightly fitting goggles (EN 166)

Eye wash bottle with pure water (EN 15154).

##### Hand protection

Splash protection:

Protective gloves resistant to chemicals made off nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) > 10 minutes.

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.

##### 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:	Green, black, white
Odour:	Fruity

#### Test method

pH-Value:	n.d.
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#### Changes in the physical state

Melting point/freezing point:	n.d.
Boiling point or initial boiling point and boiling range:	77 - 81 °C
Sublimation point:	n.a.



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Softening point: n.d.  
Pour point: n.d.  
Flash point: - 19 °C DIN EN ISO 13736

#### 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: ~ 1,2 vol. %  
Upper explosion limits: ~ 11,5 vol. %  
Auto-ignition temperature: > 250 °C

#### Self-ignition temperature

Solid: n.a.  
Gas: n.a.

Decomposition temperature: n.d.

#### Oxidizing properties

Non oxidizing.

Vapour pressure: ~ 100 hPa  
(at 20 °C)

Density (at 20 °C): 0,9 g/cm<sup>3</sup>

Bulk density: n.a.

Water solubility: Immiscible  
(at 20 °C)

#### Solubility in other solvents

n.d.

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

Viscosity / dynamic: 2000 mPa·s

Viscosity / kinematic: > 20,5 mm<sup>2</sup>/s  
(at 40 °C)

Flow time: 116 s 6 DIN EN ISO 2431  
(at 23 °C)

Relative vapour density: n.d.

Evaporation rate: n.d.

Solvent separation test: 0 %

Solvent content: < 80 %

#### 9.2. Other information

No data available

### 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 oxidising agents.



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#### **10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.  
Vapour/air mixtures are explosive at intensive warming.  
Heating can release vapours which can be ignited.

#### **10.5. Incompatible materials**

Strong oxidizing agents

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

No hazardous decomposition products known.  
Fire may produce:  
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.  
No toxic data available.  
Ethyl acetate  
LD50/oral/rat: 4935 mg/kg  
LC50/inhalativ/rat: 1600 mg/l

Cyclohexane  
LD50/oral/rat: 12705 mg/kg

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

Causes skin irritation.  
Causes serious eye irritation.

##### **Sensitising effects**

Contains Colophony. May produce an allergic reaction.

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

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

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

May cause drowsiness or dizziness. (Ethyl acetate; Cyclohexane)

##### **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**

May cause irritation of the mucous membranes.  
Effects of breathing high concentrations of vapour may include. Headache, dizziness, weakness, unconsciousness.  
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

### **SECTION 12: Ecological information**

#### **12.1. Toxicity**

Ecological data are not available.

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Colophony  
LC50/EC50: > 100 mg/l  
Cyclohexane  
EC50/Daphnia magna/48 h = 0,9 mg/l  
IC50/Selenastrum capricornutum/72 h > 4 mg/l  
Ethyl acetate  
LC50/EC50/EC50 : > 100 mg/l  
Zinc oxide  
EC50/Ceriodaphnia dubia/48 h = 0,01 - 0,1 mg/l  
EC50/Selenastrum capricornutum/72 h = 0,01 - 0,1 mg/l  
Very toxic to aquatic life with long lasting effects.

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

No data available

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

No data available

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

No data available

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

#### **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.

No data available

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

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 1133



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**14.2. UN proper shipping name:** Adhesives  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Classification code: F1  
Limited quantity: 5 L / 30 kg  
Excepted quantity: E1  
Transport category: 3  
Tunnel restriction code: E

#### Other applicable information (land transport)

Receptacle max. 450 L, ADR subsection 2.2.3.1.4

#### Inland waterways transport (ADN)

**14.1. UN number:** UN 1133  
**14.2. UN proper shipping name:** Adhesives  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Classification code: F1  
Limited quantity: 5 L / 30 kg  
Excepted quantity: E1

#### Marine transport (IMDG)

**14.1. UN number:** UN 1133  
**14.2. UN proper shipping name:** Adhesives (Cyclohexane)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Limited quantity: 5 L  
Excepted quantity: E1  
EmS: F-E, S-D

#### Other applicable information (marine transport)

Receptacle max. 450 L, IMDG Code subsection 2.3.2.2

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

**14.1. UN number:** UN 1133  
**14.2. UN proper shipping name:** Adhesives  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3

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Limited quantity Passenger:	10 L
Passenger LQ:	Y344
Excepted quantity:	E1
IATA-packing instructions - Passenger:	355
IATA-max. quantity - Passenger:	30 L (*)
IATA-packing instructions - Cargo:	366
IATA-max. quantity - Cargo:	100 L (*)

#### Other applicable information (air transport)

(\*) [3.3.3.1 IATA DGR]

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



#### 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

Restrictions on use (REACH, annex XVII):

Entry 40, Entry 57, Entry 75

2004/42/EC (VOC): 75 - 80 %

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Additional information: E1

##### 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): 2 - obviously hazardous to water

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 2,6,7,9,11,12,15.



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#### 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

#### 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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains Colophony. May produce an allergic reaction.

#### 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.)*