

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

TIP TOP CEMENT SC 4000 White

Revision date: 06/25/2024

Product code: 00156-0538

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1. Identification**Product identifier**

TIP TOP CEMENT SC 4000 White

Art.-No.

525 2695, 525 2704, 5252705, 525 2712, 525 2729

Recommended use of the chemical and restrictions on use**Use of the substance/mixture**

Adhesive

Details of the supplier of the safety data sheet**Manufacturer**

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

Supplier

Company name: REMA TIP TOP / North America Inc.
Street: 1500 Industrial Blvd
Place: Madison, GA 30650, USA
Telephone: +1 800 225 7362,
Internet: www.rematiptop.com

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
Infotrac/GBK GmbH-ID: 93591

2. Hazard(s) identification**Classification of the chemical****29 CFR Part 1910.1200**

Flammable liquids: Flam. Liq. 2
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2A
Respiratory or skin sensitization: Skin Sens. 1
Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)
Hazardous to the aquatic environment: Aquatic Chronic 1

Label elements**29 CFR Part 1910.1200****Signal word:** Danger**Pictograms:****Hazard statements**

Highly flammable liquid and vapor
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause drowsiness or dizziness

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Very toxic to aquatic life with long lasting effects

Precautionary statements

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

Avoid breathing vapour.

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.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Call a poison center/doctor if you feel unwell.

Avoid release to the environment.

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**Mixtures****Chemical characterization**

Preparation in organic solvents

Hazardous components

CAS No	Components	Quantity
110-82-7	Cyclohexane	< 40 %
141-78-6	Ethyl acetate	< 40 %
8050-09-7	Colophony	< 1 %
13463-67-7	Titanium dioxide	0.34 %

Further Information

Note: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 μm .

4. First-aid measures**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.

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Summon a doctor immediately.
Induce vomiting only upon the advice of a physician.

Most important symptoms and effects, both acute and delayed

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

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.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.

Unsuitable extinguishing media

Full water jet.

Specific hazards arising from the chemical

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

Special protective equipment and precautions for fire-fighters

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.

6. Accidental release measures**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.

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.

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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.
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.

Advice on general occupational hygiene

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.

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.

8. Exposure controls/personal protection**Control parameters**

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Exposure limits

CAS No	Substance	ppm	mg/m ³	f/cc	Category	Origin
8050-09-7	(OLD) Rosin core solder thermal decomposition products (colophony)	-	-		as low as possible	ACGIH-2023
110-82-7	Cyclohexane	300	1050		TWA (8 h)	REL
		300	1050		TWA (8 h)	REL
		100			TWA (8 h)	ACGIH-2023
141-78-6	Ethyl acetate	400	1400		TWA (8 h)	REL
		400	1400		TWA (8 h)	REL
		400			TWA (8 h)	ACGIH-2023
112926-00-8	Silica, amorphous, precipitated and gel	706 mp/m ³	(Z-3)		TWA (8 h)	REL
13463-67-7	Titanium dioxide Total dust	-	15		TWA (8 h)	REL
13463-67-7	Titanium dioxide: Finescale particles (Respirable particulate matter)		2.5		TWA (8 h)	ACGIH-2023
13463-67-7	Titanium dioxide: Nanoscale particles (Respirable particulate matter)		0.2		TWA (8 h)	ACGIH-2023
13463-67-7	Titanium dioxide				as low as possible	REL
1314-13-2	Zinc oxide (Dust)	-	5		TWA (8 h)	REL
		-	C 15		Ceiling	REL
1314-13-2	Zinc oxide (respirable fraction)		2		TWA (8 h)	ACGIH-2023
			10		STEL (15 min)	ACGIH-2023
1314-13-2	Zinc oxide Respirable fraction	-	5		TWA (8 h)	REL

Biological Exposure Indices (BEI-ACGIH)

CAS No	Substance	Determinant	Value	Test material	Sampling time
110-82-7	CYCLOHEXANE	1,2-Cyclohexanediol (with hydrolysis, creatinine)	50 mg/g	urine	End of shift, end of workweek

Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection

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

Eye wash bottle with pure water.

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.

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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 - viscous
Color:	White
Odor:	Fruity

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

Flammability

Solid/liquid:	n.a.
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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.
pH-Value:	n.d.
Viscosity / dynamic:	2000 mPa·s
Viscosity / kinematic: (at 40 °C)	> 20,5 mm ² /s
Flow time: (at 23 °C)	116 s 6 DIN EN ISO 2431
Water solubility: (at 20 °C)	Immiscible

Solubility in other solvents

n.d.

Partition coefficient n-octanol/water:	n.d.
Vapor pressure: (at 20 °C)	~ 100 hPa
Density (at 20 °C):	0,9 g/cm ³
Bulk density:	n.a.
Relative vapour density:	n.d.

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Other information**Information with regard to physical hazard classes**

Sustaining combustion:

Sustaining combustion

Oxidizing properties

Not oxidising.

Other safety characteristics

Solvent separation test:

0 %

Solvent content:

< 80 %

Evaporation rate:

n.d.

Further 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.

Possibility of hazardous reactions

Hazardous reactions:

Will not occur

Reactions with oxidizing agents.

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.

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

No hazardous decomposition products known.

Fire may produce:

Hydrogen chloride gas, Carbon monoxide and carbon dioxide

11. Toxicological information**Route(s) of Entry**

Skin and eye contact, inhalation and ingestion.

Information on toxicological effects**Acute toxicity**

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

No toxicological data available.

Ethyl acetate

LD50/oral/rat: 4935 mg/kg

LC50/inhalativ/rat: 1600 mg/l

Cyclohexane

LD50/oral/rat: 12705 mg/kg

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/eye irritation: Causes serious eye irritation

Sensitizing effects

May cause an allergic skin reaction (Colophony)

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness (Cyclohexane; Ethyl acetate)

Specific target organ toxicity (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

This product is classified in accordance with the GHS regulations.

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.

12. Ecological information**Ecotoxicity**

Ecological data are not available.

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.

Persistence and degradability

No data available

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.

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Other adverse effects

Hazardous water pollutant.

Further information

Do not flush into surface water or sanitary sewer system.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Where possible recycling is preferred to disposal.
Can be incinerated, when in compliance with local regulations.

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

U.S. DOT 49 CFR 172.101

UN number or ID number:

UN 1133

Proper shipping name:

Adhesives

Transport hazard class(es):

3

Packing group:

III

Hazard label:

3



Marine transport (IMDG)

UN number or ID number:

UN 1133

UN proper shipping name:

Adhesives (Cyclohexane)

Transport hazard class(es):

3

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)

UN number or ID number:

UN 1133

UN proper shipping name:

Adhesives

Transport hazard class(es):

3

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]

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

**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:

Cyclohexane (110-82-7): Reportable quantity = 1,000 (454) lbs. (kg)

Ethyl acetate (141-78-6): Reportable quantity = 5,000 (2270) lbs. (kg)

SARA Section 311/312 Hazards:

Cyclohexane (110-82-7): Fire hazard, Immediate (acute) health hazard

Ethyl acetate (141-78-6): Fire hazard, Immediate (acute) health hazard

Colophony (8050-09-7): Immediate (acute) health hazard

Titanium dioxide (13463-67-7): Delayed (chronic) health hazard

SARA Section 313 Toxic release inventory:

Cyclohexane (110-82-7): De minimis limit = 1.0 %, Reportable threshold = Standard

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.

16. Other information**Hazardous Materials Identification System (HMIS)**

Health:	*2
Flammability:	2
Physical Hazard:	0

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NFPA Hazard Ratings

Health:	2
Flammability:	2
Reactivity:	0
Unique Hazard:	
Revision date:	25.06.2024
Revision No:	1,0



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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)