

Safety Data Sheet

according to WHMIS

TIP TOP CEMENT OTR

Revision date: 18.07.2024

Product code: 00156-0359

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1. Identification

Product identifier

TIP TOP CEMENT OTR

Art.-No.

515 9430, 515 9431, 515 9432, 515 9440, 515 9441

Relevant identified uses of the substance or mixture and uses advised against

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 telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)
(001) 352 323 3500 Infotrac/GBK GmbH-ID: 93591

2. Hazard identification

Classification of the substance or mixture

WHMIS 2015

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

Label elements

WHMIS 2015

Signal word: Danger

Pictograms:



Hazard statements

Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Very toxic to aquatic life with long lasting effects.

Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not breathe vapour.

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Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.

Other hazards

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 with ethyl acetate

Hazardous components

CAS No	Chemical name	Quantity
141-78-6	Ethyl acetate	< 65 %
92062-15-2	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic compounds, < 3% n-hexane [Solvent naphta (petroleum)]	< 25 %
14634-93-6	Zinc-bis (N-ethyl-N-phenyldithiocarbamate)	< 5 %
5459-93-8	n-Cyclohexyl-N-ethylamine	< 1 %
1314-13-2	Zinc oxide	< 1 %
13463-67-7	Titanium dioxide	< 1 %

Further Information

According to note P to the regulation (EC) no. 1272/2008, "Solvent naphta (petroleum)" is not to be classified as "carcinogenic" or "mutagen" ingredient because a benzene content (EINECS No. 200-753-7) is below 0.1 % by weight.

4. First-aid measures

Description of first aid measures

General information

Remove contaminated soaked clothing immediately.
If you feel unwell, seek medical advice.
Take away from danger area and lay down affected person.

After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.
In the event of symptoms 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.



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Never give anything by mouth to an unconscious person.
Induce vomiting only upon the advice of a physician.

Most important symptoms and effects, whether acute or delayed

Causes serious eye irritation.
May cause drowsiness or dizziness.
Repeated exposure may cause skin dryness or cracking.
Attention. Beware, danger of aspiration.

Indication of immediate medical attention and special treatment needed

Treat symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Foam, carbon dioxide (CO₂), dry chemical, water-spray.

Unsuitable extinguishing media

Full water jet.

Specific hazards arising from the hazardous product

Fire may produce:
carbon monoxide and carbon dioxide

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.
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.
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.

Reference to other sections

Observe protective instructions (see Sections 7 and 8).

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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

- Keep away from heat and sources of ignition.
- Do not smoke.
- 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.
- 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
- Nitrous acid and other nitrosating agents.

Further information on storage conditions

- Keep away from food, drink and animal feeding stuffs.

8. Exposure controls/Personal protection

Control parameters

Exposure limits (ACGIH)

CAS No	Chemical name	ppm	mg/m ³	F/ml	Category	Origin
141-78-6	Ethyl acetate	400	1440		TWA (8 h)	ACGIH-2024
9006-04-6	Natural rubber latex as inhalable allergenic protein		0.0001		TWA (8 h)	ACGIH-2024
13463-67-7	Titanium dioxide: Finescale particles (Respirable particulate matter)		0.2		TWA (8 h)	ACGIH-2024
1314-13-2	Zinc oxide (respirable fraction)		2		TWA (8 h)	ACGIH-2024
			10		STEL (15 min)	ACGIH-2024

Exposure controls

Appropriate engineering controls

- Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection

- Tightly fitting goggles.



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Eye wash bottle with pure water.

Hand protection

Splash protection:

Protective gloves resistant to chemicals made off natural-rubber latex, Minimum coat thickness 0.6 mm, Permeation resistance (wear duration) approx. 10 minutes, i.e. protective glove <Lapren 706> made by www.kcl.de.

Protective gloves resistant to chemicals made off butyl, Minimum coat thickness 0,7 mm, Permeation resistance (wear duration) > 60 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

Solvent-resistant apron.

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
Colour:	Blue
Odour:	Ester-like

Test method

Changes in the physical state

Melting point/freezing point:	n.d.
Boiling point or initial boiling point and boiling range:	> 35 °C
Sublimation point:	n.a.
Softening point:	n.d.
Flash point:	- 20 °C DIN EN ISO 3679

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 explosive limits:	2,1 vol. %
Upper explosive limits:	11,5 vol. %
Auto-ignition temperature:	460 °C

Self-ignition temperature

Solid:	n.a.
Gas:	n.a.
Decomposition temperature:	n.d.

pH-Value:	n.d.
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Viscosity / dynamic: (at 20 °C)	4500 - 6500 mPa·s
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Viscosity / kinematic: (at 40 °C)	3740 - 3820 mm ² /s
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Flow time: (at 23 °C)	385 s 6 DIN EN ISO 2431
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Water solubility: (at 20 °C)	Immiscible
Solubility in other solvents n.d.	
Partition coefficient n-octanol/water:	n.d.
Vapour pressure: (at 20 °C)	100 hPa
Density (at 20 °C):	0,88 g/cm ³
Bulk density:	n.a.
Relative vapour density:	n.d.

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

Sustaining combustion: Sustaining combustion

Oxidizing properties

Not oxidising.

Other safety characteristics

Solvent separation test: < 3%

Solvent content: < 85 %

Evaporation rate: n.d.

Further Information

No data available

10. Stability and reactivity**Reactivity**

No decomposition if stored and applied as directed.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

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

Nitrous acid and other nitrosating agents.
Oxidizing agents

Hazardous decomposition products

No hazardous decomposition products known.
Fire may produce:
Carbon monoxide and carbon dioxide
An inappropriate handling, for instance major amounts of product combined with strong heat and nitrosating agents, renders possible a cleavage of nitrosamines in traces.

11. Toxicological information**Information on toxicological effects****Acute toxicity**

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Based on available data, the classification criteria are not met.
No toxicological data available.

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

Irritation and corrosivity

Serious eye damage/eye irritation: 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

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.

STOT-single exposure

May cause drowsiness or dizziness. (Ethyl acetate; Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic compounds, < 3% n-hexane [Solvent naphta (petroleum)])

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.

Information on likely routes of exposure

Skin and eye contact, inhalation and ingestion.

Additional information on tests

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

Information on other hazards

Endocrine disrupting properties

No data available

Other information

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.

Further information

An inappropriate handling, for instance major amounts of product combined with strong heat and nitrosating agents, renders possible a cleavage of nitrosamines in traces.

12. Ecological information

Ecotoxicity

Ecological data are not available.
Very toxic to aquatic life with long lasting effects.
Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic compounds, < 3% n-hexane
LC50/EC50/EC50 : 1 - 10 mg/l
Zinc oxide
LC50/Oncorhynchus mykiss/96 h = 0,169 mg/l
EC50/Ceriodaphnia dubia/48 h = 0,413 mg/l
ErC50/Pseudokirchneriella subcapitata/72 h = 0,136 mg/l [OECD 201]
NOEC/Pseudokirchneriella subcapitata/72 h = 0,019 mg/l [OECD 201]
n-Cyclohexyl-N-ethylamine
EC50/Daphnia magna/48 h = 10 - 100 mg/l
ErC50/Desmodesmus subspicatus/72 h = 10 - 100 mg/l

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Zinc-bis (N-ethyl-N-phenyldithiocarbamate)
EC50/Daphnia magna/48 h = 0,049 mg/l [OECD 202]
ErC50/Desmodesmus subspicatus/72 h > 4,3 mg/l [OECD 201]
NOEC/Desmodesmus subspicatus/72 h = 1,7 mg/l [OECD 201]
Ethyl acetate
LC50/EC50/EC50 : > 100 mg/l

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.

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

Canadian TDG

<u>UN number:</u>	UN 1133
<u>Proper shipping name:</u>	Adhesives
<u>Hazard classes:</u>	3
<u>Packing group:</u>	III
Hazard label:	3
Limited quantity:	5L



Marine transport (IMDG)

<u>UN number or ID number:</u>	UN 1133
<u>United Nations proper shipping name:</u>	Adhesives (Solvent naphtha (petroleum))
<u>name:</u>	
<u>Transport hazard class(es):</u>	3
<u>Packing group:</u>	III
Hazard label:	3

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Marine pollutant: Yes
 Limited quantity: 5 L / 30 kg
 Excepted quantity: E1
 EmS: F-E, S-D

Other applicable information (marine transport)

Receptacle max. 450 L, IMDG Code subsection 2.3.2.2
 Segregation group: -

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: UN 1133
United Nations proper shipping name: Adhesives
Transport hazard class(es): 3
Packing group: III
 Hazard label: 3



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



15. Regulatory information

Canadian regulations

DSL/NDSL inventory status

All components are listed on the DSL Inventory.

National Pollutant Release Inventory (NPRI)

Zinc-bis (N-ethyl-N-phenyldithiocarbamate) (14634-93-6)
 Zinc oxide (1314-13-2)

WHMIS classification

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

16. Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,6,8,9,11,12,14.



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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

Further Information

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release 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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)