Product code: 00156-0068



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

1.1. Product identifier

TIP TOP CEMENT OTR-NF

Art.-No.

515 0547, 515 0548, 515 0554, 515 0562, 515 0570

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 63					
Place:	D-85586 Poing					
Telephone:	+49 (0) 8121 / 707 - 0					
Responsible Department:	Responsible for the safety data sheet: sds@gbk-ingelheim.de					
<u>1.4. Emergency telephone</u> number:	INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a) England and Wales: NHS Direct - 0845 4647; Scotland: NHS 24 - 08454 24 24 24					

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture according to 1272/2008/EC

Hazard categories: Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1 Germ cell mutagenicity: Muta. 2 Carcinogenicity: Carc. 1B Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 3 Hazard Statements: Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. Suspected of causing genetic defects. May cause cancer. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label Trichloroethylene

Signal word:

Pictograms:

Danger



Hazard statements

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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

Not known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Preparation with trichloroethylene

Hazardous components

CAS No	Chemical name			
	EC No	Index No	REACH No	
	Classification according to Regulat	on (EC) No. 1272/2008 [CLP]		
79-01-6	Trichloroethylene			> 90 %
	201-167-4	602-027-00-9	01-2119490731-36	
	Carc. 1B, Muta. 2, Skin Irrit. 2, Eye H341 H315 H319 H317 H336 H412	Irrit. 2, Skin Sens. 1, STOT SE 3, A	quatic Chronic 3; H350	
5459-93-8	N-Cyclohexyl-N-ethylamine		< 0,5 %	
	226-733-8		01-2119949285-29	
	Flam. Liq. 3, Acute Tox. 3, Acute To H311 H331 H302 H314 H412	ox. 3, Acute Tox. 4, Skin Corr. 1B, Ad	quatic Chronic 3; H226	
1314-13-2	Zinc oxide		< 0,25 %	
	215-222-5	030-013-00-7	01-2119463881-32	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			

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.

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

Rinse out mouth and give plenty of water to drink.

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Never give anything by mouth to an unconscious person. Summon a doctor immediately. Induce vomiting only upon the advice of a physician. Attention. Beware, danger of aspiration.

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

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

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 (CO2), 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 chloride 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

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and 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). Information for disposal see section 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.

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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.

Advice on storage compatibility

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

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
79-01-6	Trichloroethylene	100	550		TWA (8 h)	WEL
		150	820		STEL (15 min)	WEL

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

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

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 (EN 368).

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:	Blue
Odour:	Sweetish

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*)

Changes in the physical state

Initial boiling point and boiling range:	approx. 90 °C
Flash point:	n.a.
Lower explosion limits:	7,9 vol. %
Upper explosion limits:	
Ignition temperature:	410 °C
Vapour pressure: (at 20 °C)	77 hPa
Density:	1,45 g/cm³
Water solubility: (at 20 °C)	Immiscible
Viscosity / dynamic:	12000 - 14000 mPa·s
Vapour density:	4,54
Solvent content:	> 90 %

9.2. Other information

"*) 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 acids, alkalies and oxidizing agents Reactions with alkali metals. Reactions with earth alkali metals.

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

10.6. Hazardous decomposition products

Chlorine and traces of phosgene. Hydrogen chloride gas Carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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/inhalation/rat: 12500 ppm/4h

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CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
79-01-6	Trichloroethylene				
	oral	LD50	4920 mg/kg	Rat	
	dermal	LD50	> 2000 mg/kg	Rabbit	
5459-93-8	3-8 N-Cyclohexyl-N-ethylamine				
	oral	LD50	590 mg/kg	Rat	
	dermal	LD50	750 mg/kg	Rabbit	
	inhalative vapour	ATE	3 mg/l		
	inhalative aerosol	ATE	0,5 mg/l		
1314-13-2	Zinc oxide				
	oral	LD50	> 5000 mg/kg	Rat	

Irritation and corrosivity

Causes serious eye irritation. Causes skin irritation.

Sensitising effects

May cause an allergic skin reaction. (Trichloroethylene)

STOT-single exposure

May cause drowsiness or dizziness. (Trichloroethylene)

Severe effects after repeated or prolonged exposure

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

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (Trichloroethylene) May cause cancer. (Trichloroethylene)

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.

Practical experience

Other observations

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 = 47 mg/l EC50/Algae/96 h = 420 mg/l Zinc oxide EC50/Selenastrum capricornutum/72 h = 0,17 mg/l

Harmful to aquatic life with long lasting effects.

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CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
5459-93-8	N-Cyclohexyl-N-ethylamine					
	Acute algae toxicity	ErC50	53,5 mg/l	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50	66 mg/l	48 h	Daphnia magna	

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

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

12.6. 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

Advice on disposal

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

Waste disposal number of waste from 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 Classified as 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)

<u>14.1. UN number:</u>	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
Classification code: Limited quantity:	T1 5 L / 30 kg

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Product code: 00156-0068	
Excepted quantity:	E1
Transport category:	2
Hazard No: Tunnel restriction code:	60 E
	E
Inland waterways transport (ADN)	UN 1710
<u>14.1. UN number:</u>	
14.2. UN proper shipping name:	TRICHLOROETHYLENE, Solution
14.3. Transport hazard class(es):	6.1 III
<u>14.4. Packing group:</u>	
Hazard label:	6.1
Classification and a	6
Classification code: Limited quantity:	T1 5 L / 30 kg
Excepted quantity:	E1
Marine transport (IMDG)	
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:	
Hazard label:	6.1
	**
	6
Marine pollutant:	No
Limited quantity:	5 L / 30 kg
Excepted quantity:	E1
EmS:	F-A, S-A
Air transport (ICAO)	
14.1. UN number:	UN 1710
14.2. UN proper shipping name:	TRICHLOROETHYLENE SOLUTION
<u>14.3. Transport hazard class(es):</u>	6.1
14.4. Packing group:	111
Hazard label:	6.1
Limited quantity Dependent	2 L
Limited quantity Passenger: Passenger LQ:	2 L Y642
Excepted quantity:	E1
IATA-packing instructions - Passenger:	655
IATA-max. quantity - Passenger:	60 L
IATA-packing instructions - Cargo:	663 220 I
IATA-max. quantity - Cargo:	220 L
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	no
<u>14.6. Special precautions for user</u> Handle in accordance with good industrial hys	niono and safety practices
14.7 Transport in bulk according to Annex	

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The transport takes place only in approved and appropriate packaging.

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
EU regulatory information		
2004/42/EC (VOC):		> 90 %
National regulatory info	ormation	
Employment restrictions		Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating clase Additional information	iss (D):	3 - highly water contaminating
Consider Chemical prohibition regulation.		
<u>15.2. Chemical safety assessment</u> For this substance a chemical safety assessment has not been carried out.		
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		
H302 H H311 Tr H314 C H315 C H317 M H319 C H331 Tr H336 M	Iammable liquid and va Iarmful if swallowed. Toxic in contact with skir Causes severe skin burr Causes skin irritation. May cause an allergic sl Causes serious eye irrita Toxic if inhaled. May cause drowsiness of	apour. n. ns and eye damage. kin reaction. ation. or dizziness.
	Suspected of causing ge Nav cause cancer.	

- H350 May cause cancer.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- 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.)