

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

#### 1.1. Product identifier

**TIP TOP CEMENT TC 6000** Art.-No. 525 2200 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 Responsible for the safety data sheet: s	+49 (0) 8121 / 707 - 0 ds@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

Indications of danger: F - Highly flammable, Xn - Harmful, Xi - Irritant R phrases: Highly flammable. Harmful by inhalation and in contact with skin. Irritating to eyes and skin. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# **GHS** classification

Hazard categories: Flammable liquid: Flam. Liq. 2 Acute toxicity: Acute Tox. 4 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory/skin sensitization: Skin Sens. 1 Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 3 Hazard Statements: Highly flammable liquid and vapour. Harmful in contact with skin or if inhaled. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

# 2.2. Label elements

Hazardous components which must be listed	d on the label
Xylene (mixed isomers)	
Ethyl acetate	
Reaction product: bisphenol-A-(epichlorhydrin)	epoxy resin (number average molecular weight <= 700)
Signal word:	Danger
Pictograms:	GHS02-GHS07





#### Hazard statements

H225	Highly flammable liquid and vapour.
H312+H332	Harmful in contact with skin or if inhaled.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Avoid release to the environment.

# 2.3. Other hazards

Vapours may form explosive mixture with air.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

# **Chemical characterization**

Preparation in organic solvents



#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
215-535-7	Xylene (mixed isomers)	< 45 %
1330-20-7	Xn - Harmful, Xi - Irritant R10-20/21-38-65	
601-022-00-9	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Asp. Tox. 1; H226 H312 H332 H315 H304	
01-2119486136-34		
205-500-4	Ethyl acetate	< 30 %
141-78-6	F - Highly flammable, Xi - Irritant R11-36-66-67	
607-022-00-5	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
01-2119475103-46		
202-849-4	Ethyl benzene	< 10 %
100-41-4	F - Highly flammable, Xn - Harmful R11-20	
601-023-00-4	Flam. Liq. 2, Acute Tox. 4; H225 H332	
02-2119752523-40		
500-033-5	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	< 2,5 %
25068-38-6	Xi - Irritant, N - Dangerous for the environment R36/38-43-51-53	
603-074-00-8	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	
01-2119456619-26		
215-222-5	Zinc oxide	< 0,25 %
1314-13-2	N - Dangerous for the environment R50-53	
030-013-00-7	Aquatic Acute 1, Aquatic Chronic 1; H400 H410	
01-2119463881-32		

Full text of R and H phrases: see Section 16.

#### **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. Consult (eye) doctor immediately.

#### After ingestion

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. 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

Harmful in contact with skin or if inhaled. Causes skin irritation.



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

#### 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.

# Unsuitable extinguishing media

Full water jet.

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

Fire may produce: Carbon monoxide, carbon dioxide, sulphur oxides and nitrogen oxides (NOx). Hydrogen chloride (HCI).

#### 5.3. Advice for firefighters

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.

### **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. Keep away sources of ignition.

#### 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. Clean contaminated surface thoroughly.

#### 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.

Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing.

### Advice on protection against fire and explosion

Keep product and empty container away from heat and sources of ignition.

Pay attention to anti-explosion rules.

Do not smoke.

Take precautionary measures against static discharges.



#### 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.

#### 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
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

#### **Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol	urine	Post shift

# 8.2. Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Pay attention to explosion protection guidelines.

# 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. Remove and wash contaminated clothes before re-use.

#### Eye/face protection

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

#### Hand protection

Splash protection:

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 (EN 368).

# **Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 141).



#### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical pro	<u>perties</u>	
Physical state:	Liquid	
Colour:	Yellow	
Odour:	Aromatic	
Initial boiling point and boiling range:	> 76 °C	
Flash point:	- 5 °C	
Lower explosion limits:	1,2 vol. %	
Upper explosion limits:		
Vapour pressure:	97 hPa	
Density (at 20 °C):	0,91 g/cm³	
Water solubility: (at 20 °C)	Immiscible	
Ignition temperature:	> 430 °C	
Viscosity / dynamic:	1400 - 1600 mPa·s	
Viscosity / kinematic: (at 40 °C)	> 20,5 mm²/s	
Flow time: (at 23 °C)	> 44	6 DIN EN ISO 2431
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 oxidizing agents.

#### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Vapours may form explosive mixture with air.

### 10.5. Incompatible materials

Strong oxidizing agents

#### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, sulphur oxides, and nitrogen oxides (NOx).

Hydrogen chloride (HCI)

### **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

#### Acute toxicity

Harmful in contact with skin or if inhaled. No toxicological data available.

#### Irritation and corrosivity

Causes serious eye irritation. Causes skin irritation.

#### Sensitising effects

May cause an allergic skin reaction. (Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700))



#### STOT-single exposure

May cause drowsiness or dizziness. (Ethyl acetate )

Severe effects after repeated or prolonged exposure 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.

Carcinogenicity: Not classified. Mutagenicity: Not classified.

Teratogenicity: Not classified.

#### 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

Inhalation of vapours in high concentration can cause narcotic effects. Inhalation of high vapour concentration may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. 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.

Harmful 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

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

Hazardous water pollutant.

# Further information

Do not flush into surface water or sanitary sewer system.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Advice on disposal

080409

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

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 dangerous substances Classified as hazardous waste.

#### Contaminated packaging

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.

Empty containers should be taken for local recycling, recovery or waste disposal.

### **SECTION 14: Transport information**



Land transport (ADR/RID)	
<u>14.1. UN number:</u>	UN1133
14.2. UN proper shipping name:	Adhesives
14.3. Transport hazard class(es):	3
14.4. Packing group:	Ш
Hazard label:	3
Classification code:	F1
Limited quantity:	5 L / 30 kg
Transport category:	3
Hazard No: Tunnel restriction code:	33 D/E
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN1133
14.2. UN proper shipping name:	Adhesives
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
	**
	3
Classification code:	F1
Limited quantity:	5 L / 30 kg
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN1133
14.2. UN proper shipping name:	Adhesives
<u>14.3. Transport hazard class(es):</u>	3
14.4. Packing group:	III
Hazard label:	3
	3
Marine pollutant: Limited quantity:	No 5 L / 30 kg
EmS:	F-E, S-D
Other applicable information (marine transp Receptacle max. 30 L, IMDG Code subsection	,
Air transport (ICAO)	
14.1. UN number:	UN1133
14.2. UN proper shipping name:	Adhesives
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
	3
Special Provisions:	A3
Limited quantity Passenger:	Y344 / 10 L



IATA-packin	g instructions - Passenger:	355
	uantity - Passenger:	30 L (*)
	g instructions - Cargo: uantity - Cargo:	366 30 L (*)
	cable information (air transport)	
	nmental hazards	
	ENTALLY HAZARDOUS:	no
	al precautions for user	
	cordance with good industrial hy	giene and safety practice.
14.7. Trans	port in bulk according to Annex	II of MARPOL73/78 and the IBC Code
The transpo	rt takes place only in approved a	nd appropriate packaging.
SECTION '	I5: Regulatory information	
<u>15.1. Safety</u>	, health and environmental regu	lations/legislation specific for the substance or mixture
EU regulato	ry information	
1999/13/EC	(VOC):	< 80 %
National reg	gulatory information	
Employmen	t restrictions:	Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
<u>15.2. Chemi</u>	cal safety assessment	
For this sub	stance a chemical safety assessr	nent has not been carried out.
SECTION '	I6: Other information	
	ns and acronyms	
		nternational des marchandises Dangereuses par Route ernational ferroviaire de marchandises dangereuses
ADN = Acco	ord européen relatif au transport i	nternational des marchandises dangereuses par voie de navigation intérieure
	rnational Maritime Code for Dang	gerous Goods iciation / International Civil Aviation Organization
	•	Prevention of Pollution from Ships
		ruction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
		sification and Labelling of Chemicals
	Registration, Evaluation, Authoriza	ation and Restriction of Chemicals
EN = Europ		
	national Organization for Standard	dization
	sche Industrie Norm sistent Bioaccumulative and Toxic	
LD = Lethal LC = Lethal	concentration	
EC = Effect	concentration	
IC = Mediar	immobilisation concentration or	median inhibitory concentration
	R phrases referred to under Sec	tions 2 and 3
10 11	Flammable. Highly flammable.	
20	Harmful by inhalation.	
20/21 36	Harmful by inhalation and in co Irritating to eyes.	intact with skin.
36/38	Irritating to eyes and skin.	
38	Irritating to skin.	
43 50	May cause sensitisation by skill Very toxic to aquatic organisms	
51	Toxic to aquatic organisms	··

Toxic to aquatic organisms.

51



52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
53	May cause long-term adverse effects in the aquatic environment.		
65	Harmful: may cause lung damage if swallowed.		
66	Repeated exposure may cause skin dryness or cracking.		
67	Vapours may cause drowsiness and dizziness.		
Full text of H	l statements referred to under Sections 2 and 3		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H312+H332	Harmful in contact with skin or if inhaled.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H336	May cause drowsiness or dizziness.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
Further Infor	mation		
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		

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.)