

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

1.1. Product identifier

TIP TOP REMAFIX H COMP. B Art.-No. 525 0556, 525 0563 <u>1.2. Relevant identified uses of the substance or mixture and uses advised against</u>

Use of the substance/mixture

Two component repair kit

1.3. Details of the supplier of the safety data sheet

Company name:	TIP TOP Oberflaechenschutz Elbe GmbH	
Street:	Heuweg 4	
Place:	D-06886 Wittenberg	
Telephone	+49(0)3491/635-50	
Telefax	+49(0)3491/635-552	
Responsible for the safety data sheet: sds@gbk-ingelheim.de		
1.4. Emergency telephone <u>number:</u>	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	

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: T - Toxic, C - Corrosive R phrases: May cause harm to the unborn child. Causes burns. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

GHS classification

Hazard categories: Skin corrosion/irritation: Skin Corr. 1B Serious eye damage/eye irritation: Eye Dam. 1 Respiratory/skin sensitization: Skin Sens. 1 Reproductive toxicity: Repr. 1B Hazardous to the aquatic environment: Aquatic Chronic 3 Hazard Statements: Causes severe skin burns and eye damage. May cause an allergic skin reaction. May damage the unborn child. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label

3-Aminomethyl-3,5,5-trimethylcyclohexylamine

Trimethylhexane-1,6-diamine

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

1,3-Diaza-2,4-cyclopentadiene

Signal word:

Pictograms:

Danger GHS05-GHS07-GHS08





Hazard statements

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H360D	May damage the unborn child.
H412	Harmful to aquatic life with long lasting effects.
Precautionary state	ments
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P273	Avoid release to the environment.
Special labelling of	certain mixtures
EUH205	Contains epoxy constituents. May produce an allergic reaction.
	Restricted to professional users

2.3. Other hazards

Not known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Hardener based on aliphatic polyamines



Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
220-666-8	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	< 10 %
2855-13-2	C - Corrosive, Xn - Harmful R21/22-34-43-52-53	
612-067-00-9	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H302 H312 H314 H317 H412	
01-2119514687-32		
247-063-2	Trimethylhexane-1,6-diamine	< 5 %
25513-64-8	C - Corrosive, Xn - Harmful R22-34-43-52-53	
	Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H302 H314 H317 H412	
01-2119569598-25		
500-033-5	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	< 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		
202-859-9	Benzyl alcohol	< 5 %
100-51-6	Xn - Harmful R20/22	
603-057-00-5	Acute Tox. 4, Acute Tox. 4; H302 H332	
01-2119492630-38		
238-878-4	Quartz	< 5 %
14808-60-7	Xn - Harmful R48/20	
	STOT RE 2; H373	
206-019-2	1,3-Diaza-2,4-cyclopentadiene	< 1 %
288-32-4	Repr. Cat. 2, C - Corrosive, Xn - Harmful R61-22-34	
	Repr. 1B, Acute Tox. 4, Skin Corr. 1C; H360D H302 H314	
01-2119485825-24		コ

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately. Call a physician immediately.

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

In case of contact with skin wash off immediately with plenty of water. Seek medical treatment immediately.

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. 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. Attention. Beware, danger of aspiration.

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

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May damage the unborn child.

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

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

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce: Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx).

5.3. Advice for firefighters

Use breathing apparatus with independent air supply. Protective suit.

Additional information

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. 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. Handle and open container with care. Use only in thoroughly ventilated areas. Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

No special protective measures against fire required.

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.

Advice on storage compatibility

Incompatible with:



Oxidizing agents, Amines, Acids and bases.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Two component repair kit

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Avoid contact with skin, eyes and clothing. 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

Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.

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.

Pls. find examples in the protective gloves database under: http://bestglove.com/site/chemrest/

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 properties

Physical state:	pasty
Colour:	White
Odour:	Amine like
Flash point:	> 100 °C
Lower explosion limits:	n.d.
Density (at 20 °C):	2,58 g/cm ³
Water solubility:	Immiscible
(at 20 °C)	
Ignition temperature:	n.d.
9.2 Other information	

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.

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10.3. Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents Reactions with amines.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Amines oxidizing agents Acids and bases.

10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx). Ammonia

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

May cause an allergic skin reaction. (3-Aminomethyl-3,5,5-trimethylcyclohexylamine), (Trimethylhexane-1,6-diamine), (Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700))

STOT-single exposure

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

Severe effects after repeated or prolonged exposure

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

Carcinogenic/mutagenic/toxic effects for reproduction

May damage the unborn child. (1,3-Diaza-2,4-cyclopentadiene)

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.

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

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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 packagings are to be treated like the product itself. 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>	UN3267
14.2. UN proper shipping name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Trimethylhexane-1,6-diamine, 3-Aminomethyl-3,5,5-trimethylcyclohexylamine)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C7
Limited quantity:	5 L / 30 kg
Transport category:	3
Hazard No: Tunnel restriction code:	80 E
	L
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN3267
14.2. UN proper shipping name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Trimethylhexane-1,6-diamine, 3-Aminomethyl-3,5,5-trimethylcyclohexylamine)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C7
Limited quantity:	5 L / 30 kg
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN3267
14.2. UN proper shipping name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (isophoronediamine and trimethylhexamethylene diamine)
14.3. Transport hazard class(es):	8

14.4. Packing group:	III
Hazard label:	8
Marine pollutant: Limited quantity:	No 5 L / 30 kg
EmS:	F-A, S-B
Air transport (ICAO)	
<u>14.1. UN number:</u>	UN3267
14.2. UN proper shipping name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (isophoronediamine and trimethylhexamethylene diamine, mixture)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Limited quantity Passenger:	Y841/1L
IATA-packing instructions - Passenger:	852
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	856 60 L
14.5. Environmental hazards	00 L
ENVIRONMENTALLY HAZARDOUS:	no
	110
14.6. Special precautions for user Handle in accordance with good industrial hys	piene and safety practice.
14.7. Transport in bulk according to Annex	
The transport takes place only in approved ar	
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture
EU regulatory information	
1999/13/EC (VOC):	3 - 5 %
National regulatory information	
Employment restrictions:	Observe employment restrictions for young people. Observe employment
-	restrictions for child bearing mothers and nursing.

Additional information

Chemical prohibition regulation consider.

15.2. Chemical safety assessment

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

SECTION 16: Other information

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



GHS = Globa REACH = Rey CAS = Chemi EN = Europea ISO = Interna DIN = Deutsc	nternational Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk Ily Harmonized System of Classification and Labelling of Chemicals gistration, Evaluation, Authorization and Restriction of Chemicals ical Abstract Service an norm tional Organization for Standardization he Industrie Norm stent Bioaccumulative and Toxic	
LD = Lethal de LC = Lethal co EC = Effect co IC = Median ir	oncentration	
Relevant R-n	nrases (Number and full text)	
-	Harmful by inhalation and if swallowed.	
	Harmful in contact with skin and if swallowed.	
	Harmful if swallowed.	
	Causes burns.	
-	Irritating to eyes and skin.	
	May cause sensitisation by skin contact.	
	Harmful: danger of serious damage to health by prolonged exposure through inhalation.	
	Toxic to aquatic organisms.	
	Harmful to aquatic organisms.	
	May cause long-term adverse effects in the aquatic environment.	
	May cause harm to the unborn child.	
	nd EUH-phrases (Number and full text)	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H360D	May damage the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
EUH205	Contains epoxy constituents. May produce an allergic reaction.	
Further Inform	nation	
	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 irregularit		
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.)