

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

### 1.1. Product identifier

TIP TOP REMACOAT PR 100 SF Komp. B

#### Art.-No.

590 2845, 590 2862

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Coating component

### 1.3. Details of the supplier of the safety data sheet

Company name: TIP TOP Oberflächenschutz Elbe GmbH

Street: Heuweg 4

Place: D-06886 Wittenberg

Telephone: +49(0)3491/635-50

Telefax: +49(0)3491/635-552

Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

### 1.4. Emergency telephone

#### 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:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Reproductive toxicity: Repr. 2

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful if swallowed or if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility.

Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

#### Hazardous components which must be listed on the label

Polyaminoamide

p-tert-Butylphenol

Xylylenediamine

3,6-Diazaoctanethylenediamin (triethylenetetramine)

N,N-dimethyl-1,3-diaminopropane

Trimethylhexane-1,6-diamine

Signal word:

Danger

Pictograms:



#### Hazard statements

H302+H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H361f Suspected of damaging fertility.

H412 Harmful to aquatic life with long lasting effects.

**TIP TOP REMACOAT PR 100 SF Komp. B**

Revision date: 16.09.2015

Revision No: 1,1

Product code: 00359-1134

**Precautionary statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe vapour.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.

**2.3. Other hazards**

Not known.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Mixture of organic amines

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
68410-23-1	Polyaminoamide			< 50 %
	Eye Dam. 1; H318			
100-51-6	benzyl alcohol			< 25 %
	202-859-9	603-057-00-5	01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4; H302 H332			
98-54-4	p-tert-Butylphenol			< 15 %
	202-679-0		01-2119489419-21	
	Repr. 2, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, Aquatic Chronic 2; H361f H315 H318 H335 H411			
1477-55-0	Xylylenediamine			< 15 %
	216-032-5		01-2119480150-50	
	Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H331 H302 H314 H317 H412 EUH071			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol			< 10 %
	202-013-9	603-069-00-0	01-2119560597-27	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H315 H319			
112-24-3	3,6-Diazaoctanethylenediamin (triethylenetetramine)			< 5 %
	203-950-6	612-059-00-5		
	Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H312 H314 H317 H412			
109-55-7	N,N-dimethyl-1,3-diaminopropane			< 5 %
	203-680-9	612-061-00-6	01-2119486842-27	
	Flam. Liq. 3, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H226 H302 H314 H317			
25620-58-0	Trimethylhexane-1,6-diamine			< 5 %
	247-134-8			
	Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H302 H314 H317 H412			

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.  
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**

In case of contact with skin wash off immediately with soap and water.  
Consult a physician.

#### **After contact with eyes**

Remove contact lens.  
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.  
Drink plenty of water.  
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 if swallowed or if inhaled.  
May cause an allergic skin reaction.  
Causes severe skin burns and eye damage.  
Suspected of damaging fertility.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptoms.

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### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.  
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 (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

#### **5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.  
Protective suit.

#### **Additional information**

Cool containers at risk with water spray jet.  
Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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### **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.  
Avoid contact with skin, eyes and clothing.

#### **6.2. Environmental precautions**

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

#### **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.

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### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Keep container tightly closed.

Avoid contact with the skin and the eyes.

Do not breathe vapours.

Use only in thoroughly ventilated areas.

##### **Advice on protection against fire and explosion**

Keep away from heat and sources of ignition.

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:

Acids and bases.

Oxidizing agents

##### **Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

#### **7.3. Specific end use(s)**

Coating component

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### **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**

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**

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 14387).



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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Yellowish
Odour:	Amine like

pH-Value: approx. 8,5 - 11

#### **Changes in the physical state**

Initial boiling point and boiling range:	> 200 °C
Flash point:	approx. 105 °C
Lower explosion limits:	n.d.
Upper explosion limits:	
Ignition temperature:	n.d.
Vapour pressure:	< 5 hPa
(at 50 °C)	
Density (at 20 °C):	1,02 - 1,04 g/cm <sup>3</sup>
Water solubility:	Immiscible
(at 20 °C)	
Viscosity / dynamic:	800 - 1200 mPa·s
(at 20 °C)	

### 9.2. Other information

No data available.

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## 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

### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

### 10.5. Incompatible materials

Acids and bases.  
oxidizing agents

### 10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### **Acute toxicity**

Harmful if swallowed or if inhaled.  
No toxicological data available.

#### **Irritation and corrosivity**

Causes severe skin burns and eye damage.

#### **Sensitising effects**

May cause an allergic skin reaction. (Xylylenediamine), (3,6-Diazaoctanethylenediamin (triethylenetetramine)), (N,N-dimethyl-1,3-diaminopropane), (Trimethylhexane-1,6-diamine)

#### **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**

Suspected of damaging fertility. (p-tert-Butylphenol)

**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 may cause irritation of respiratory system.

Ingestion of aqueous solution causes gastrointestinal burns.

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**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.

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**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 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.

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**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:**

UN 2735

**14.2. UN proper shipping name:**

AMINES, LIQUID, CORROSIVE, N.O.S. (Xylylenediamine, N,N-dimethyl-1,3-diaminopropane)

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Classification code: C7

Limited quantity: 5 L / 30 kg

Excepted quantity: E1

Transport category: 3

Hazard No: 80

Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 2735

**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Xylylenediamine, N,N-dimethyl-1,3-diaminopropane)

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Classification code: C7

Limited quantity: 5 L / 30 kg

Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number:** UN 2735

**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (xylylenediamine, N,N-dimethyl-1,3-diaminopropane)

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Marine pollutant: No

Limited quantity: 5 L / 30 kg

Excepted quantity: E1

EmS: F-A, S-B

**Air transport (ICAO)**

**14.1. UN number:** UN 2735

**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (xylylenediamine, N,N-dimethyl-1,3-diaminopropane)

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Limited quantity Passenger: 1 L

Passenger LQ: Y841



Excepted quantity:	E1	
IATA-packing instructions - Passenger:		852
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		856
IATA-max. quantity - Cargo:		60 L

**14.6. Special precautions for user**

Handle in accordance with good industrial hygiene and safety practice.

**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.

**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): 0 %

**National regulatory information**

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 2 - water contaminating

**Additional information**

Consider Chemical prohibition regulation.

**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

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

**Relevant H and EUH statements (number and full text)**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.





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H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

**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)

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*