TIP TOP Oberflaechenschutz Elbe GmbH

Revision date: 02.07.2012 Revision No: 1,01



00359-1087



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

### 1.1. Product identifier

TIP TOP REMACOAT A-60 POLY

Art.-No.

590 2060, 590 2730, 590 2740

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

### Use of the substance/mixture

Coating system for protection against wear and corrosion

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

TIP TOP Oberflaechenschutz Elbe GmbH

Heuweg 4

D-06886 Wittenberg

Telephone: +49(0)3491/635-50 Telefax: +49(0)3491/635-552

Emergency telephone: +49 (0) 6132 / 84463 (GBK Gefahrgut Buero GmbH, Ingelheim)

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

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Indications of danger: Corrosive, Dangerous for the environment

R-phrases:

Harmful if swallowed.

Causes burns.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### **GHS** classification

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements: Harmful if swallowed.

Causes severe skin burns and eye damage. Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

Pictograms:

GHS05-GHS07-GHS09







Signal word:

Danger

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

Poly (oxy (methyl-1, 2-ethane diyl)), alpha-(2-aminomethyle thyl) omega-(2-aminomethyle thoxy)-(2-aminomethyle thyl) omega-(2-aminomethyle thoxy)-(2-aminomethyle thyl) omega-(2-aminomethyle thyl)

**Hazard statements** 

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage. H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/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.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.

P405 Store locked up.

P273 Avoid release to the environment.

### 2.3. Other hazards

Not known.

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

# 3.2. Mixtures

#### **Chemical characterization**

Mixture of organic amines

#### **Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
	Poly(oxy(methyl-1,2-ethanediyl)),alpha-(2-aminomethylethyl)omega- (2-aminomethylethoxy)-	< 60 %
9046-10-0	C, Xn R22-34-52-53	
	Acute Tox. 4, Skin Corr. 1B, Aquatic Chronic 3; H302 H314 H412	
	Glyceryl poly(oxypropylene) triamine	< 20 %
64852-22-8	Xi R38-41-52-53	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412	
270-877-4	Diethylmethylbenzenediamine	< 10 %
68479-98-1	Xn, Xi, N R21/22-48/22-36-50-53	
612-130-00-0	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H302 H312 H319 H373 H400 H410	
01-2119486805-25		
226-122-6	N,N'-Dialkylaminodiphenylmethane	< 10 %
5285-60-9	Xn, Xi R22-36/37/38	
	Acute Tox. 4, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2; H302 H319 H335 H315	

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.

Consult a physician.

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 plenty of water.

Consult a physician.

### 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

Induce vomiting only upon the advice of a physician.

Drink plenty of water.

Never give anything by mouth to an unconscious person.

Do not induce vomiting.

Summon a doctor immediately.

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

Harmful if swallowed.

Causes severe skin burns and eye damage

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Inhalation of vapours in high concentration may cause irritation of respiratory system.

### 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.

### Extinguishing media which must not be used for safety reasons

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

Wear self-contained breathing apparatus and protective suit.

#### **Additional information**

Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.

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.

Avoid contact with skin, eyes and clothing.

Use personal protective clothing.

# 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

# 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 look up chapter 13.

# **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.

Use only in well-ventilated areas.

Do not breathe vapours or spray mist.

### 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.

# Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)



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Coating system for protection against wear and corrosion



# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# 8.2. Exposure controls

### Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

# Protective and hygiene measures

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.

Do not breath vapours or spray mist.

#### Respiratory protection

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

# 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/

#### Eve protection

Tightly fitting goggles.

Eye wash bottle with pure water.

### Skin protection

Long sleeved clothing.

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

# 9.1. Information on basic physical and chemical properties

Physical state: Viscous liquid Colour: Various
Odour: Pungent

Test method

### Changes in the physical state

Flash point:  $> 100 \, ^{\circ}\text{C}$  Lower explosion limits: n.d.

Upper explosion limits:

Ignition temperature: n.d.

Density (at 25 °C): 0,98 - 1,02 g/cm³

Water solubility: Immiscible

Viscosity / dynamic: 350 - 450 mPa·s

(at 25 °C)

## **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 strong acids.

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### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

## 10.5. Incompatible materials

Acids.

### 10.6. Hazardous decomposition products

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

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

### 11.1. Information on toxicological effects

### **Acute toxicity**

No toxicological data available.

ATEmix/oral: Approx. 670 mg/kg [Harmful if swallowed.]

ATEmix/dermal: > 2000 mg/kg ATEmix/inhalation: > 20 mg/l Irritation and corrosivity

Causes severe skin burns and eye damage

#### Sensitising effects

Not classified.

# Severe effects after repeated or prolonged exposure

STOT - Single exposure: Not classified. STOT - Repeated exposure: Not classified.

Aspiration hazard: Not classified.

### Carcinogenic/mutagenic/toxic effects for reproduction

Carcinogenicity: Not classified.
Mutagenicity: Not classified.
Teratogenicity: Not classified.
Additional information on tests

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

### Empirical data on effects on humans

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Inhalation of vapours in high concentration may cause irritation of respiratory system.

After single absorption, risk of blood damage (methaemoglobinaemia).

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecological data are not available.

Toxic to aquatic life with long lasting effects.

# 12.2. Persistence and degradability

Not readily biodegradable.

# 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

# 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.



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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 dangerous 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.

**SECTION 14: Transport information** 

Land transport (ADR/RID)

**14.1. UN number:** UN2735

14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylene diamine)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Classification code: C7

Limited quantity: 5 L / 30 kg

Transport category: 3
Hazard No: 80
Tunnel restriction code: E

Inland waterways transport

**14.1. UN number:** UN2735

**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylene diamine)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8

8

Classification code: C7

Limited quantity: 5 L / 30 kg

Marine transport

**14.1. UN number:** UN2735

**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (polyoxypropylene diamine)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Limited quantity: 5 L / 30 kg EmS: F-A, S-B

Air transport

**14.1. UN number:** UN2735

14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (polyoxypropylene diamine)

14.3. Transport hazard class(es): 8
14.4. Packing group:





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Hazard label:



Limited quantity Passenger: Y841 / 1 L
IATA-packing instructions - Passenger: 852
IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo:

856
IATA-max. quantity - Cargo:

60 L

14.5. Environmental hazards

Dangerous for the environment: yes



### 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

1999/13/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): 3 - highly water contaminating

15.2. Chemical Safety Assessment

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

### **SECTION 16: Other information**

### Full text of R-phrases referred to under sections 2 and 3

21/22 Harmful in contact with skin and if swallowed.

Harmful if swallowed.Causes burns.Irritating to eyes.

36/37/38 Irritating to eyes, respiratory system and skin.

38 Irritating to skin.

41 Risk of serious damage to eyes.

48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Very toxic to aquatic organisms.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

52 Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

# Full text of H-Statements referred to under sections 2 and 3

H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

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.

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# **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.)