TIP TOP Oberflaechenschutz Elbe GmbH

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00359-1091



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

1.1. Product identifier

TIP TOP REMACOAT A-80 POLY

Art.-No.

590 2921, 590 2922, 590 2940, 590 2952, 590 2960

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)3491/635-50Telefax: +49(0)3491/635-552Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)

number: 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: C - Corrosive, N - Dangerous for the environment

R phrases:

Harmful if swallowed.

Causes burns.

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

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

Specific target organ toxicity - repeated exposure: STOT RE 2 Hazardous to the aquatic environment: Aquatic Chronic 2 $\,$

Hazard Statements: Harmful if swallowed.

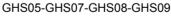
Causes severe skin burns and eye damage.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Pictograms:











Signal word:

Danger

Hazardous components which must be listed on the label

Glyceryl poly(oxypropylene) triamine

Polyoxypropylene diamine

Diethylmethylbenzenediamine

Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

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

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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.

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

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification]
REACH No		
	Glyceryl poly(oxypropylene) triamine	< 40 %
64852-22-8	Xi - Irritant R38-41-52-53	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412	
	Polyoxypropylene diamine	< 25 %
9046-10-0	C - Corrosive, Xn - Harmful R22-34-52-53	
	Acute Tox. 4, Skin Corr. 1B, Aquatic Chronic 3; H302 H314 H412	
270-877-4	Diethylmethylbenzenediamine	< 20 %
68479-98-1	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment 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		
402-130-7	4-4'-methylenebis(3-chloro-2,6- diethylaniline)	< 15 %
106246-33-7	R53	

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 doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Summon a 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.

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Induce vomiting only upon the advice of a physician.

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.

May cause damage to organs through prolonged or repeated exposure.

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).

Chlorine compounds.

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.

Use personal protective 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.

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 aerosol

Use only in thoroughly ventilated areas.

Advice on protection against fire and explosion

No special protective measures against fire required.

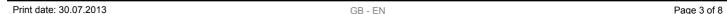
7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

Advice on storage compatibility

Incompatible with acids.



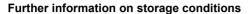


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Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

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 inhale aerosols

Respiratory protection

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

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/

Eye protection

Eye wash bottle with pure water (EN 15154).

Tightly fitting goggles (EN 166).

Skin protection

Long sleeved clothing (EN 368).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Viscous liquid Colour: Various
Odour: Amine like

Test method

Changes in the physical state

Flash point: $$> 100\,^{\circ}\text{C}$$ Lower explosion limits: \$n.d.\$ Ignition temperature: \$n.d.\$ Density (at 25 $^{\circ}\text{C}$): $$1,02 - 1,04\,\text{g/cm}^{3}$$ Water solubility: Immiscible

(at 20 °C)

Viscosity / dynamic: 1350 - 1600 mPa·s

(at 25 °C)

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactions with strong acids.

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).

Chlorine compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

No toxicological data available.

ATEmix/oral: approx. 1200 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: Category 2 [May cause damage to organs through prolonged or repeated exposure.]

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

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

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

Methaemoglobinaemia possible after skin contact.

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

Hazardous water pollutant.



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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 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 (ADN)

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

Marine transport (IMDG)

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





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

Air transport (ICAO)

UN/ID 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 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.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

Changes in chapter: 1, 2, 3, 4, 6, 7, 10, 11, 12, 16

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

VOC = Volatile organic compound

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STOT SE = Specific target organ toxicity single exposure

STOT RE = Specific target organ toxicity repeated exposure

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

bw = body weight

LD = Lethal dose

04/00

53

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

The second of the contract with a later and if according to

Full text of R phrases referred to under Sections 2 and 3

21/22	Harmtui in contact with skin and it swallowed.
22	Harmful if swallowed.
34	Causes burns.
36	Irritating to eyes.
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.
50	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.

Full text of H statements referred to under Sections 2 and 3

Full text of H statements referred to under Sections 2 and 3		
Harmful if swallowed.		
Harmful in contact with skin.		
Causes severe skin burns and eye damage.		
Causes skin irritation.		
Causes serious eye damage.		
Causes serious eye irritation.		
May cause damage to organs through prolonged or repeated exposure.		
Very toxic to aquatic life.		
Very toxic to aquatic life with long lasting effects.		
Toxic to aquatic life with long lasting effects.		
Harmful to aquatic life with long lasting effects.		

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

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.)