TIP TOP Oberflächenschutz Elbe GmbH

Revision date : 21.07.2009

**TIP TOP GROUT 648+ HARDENER** 

00359-1062



# 1. Identification of the substance/preparation and of the company/undertaking

Revision no.: 1,00

# Identification of the substance or preparation

TIP TOP GROUT 648+ HARDENER

**Art.-No.:** 590 3119

Use of the substance/preparation

Hardener

#### Company/undertaking identification

TIP TOP Oberflächenschutz Elbe GmbH

Heuweg 4

D-06886 Wittenberg

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

Responsible Department

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

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

# 2. Hazards identification

#### Classification

Indications of danger: Corrosive

R-phrases:

Harmful in contact with skin.

Causes burns.

May cause sensitization by skin contact.

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

## 3. Composition/information on ingredients

**Chemical characterization** 

(Mixture)

Polyamine

#### **Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
292-588-2		Amines, polyethylenepoly-, triethylenetetramine fraction	< 15 %	C, Xn, Xi R21-34-43-52-53
203-986-2		3,6,9-triazaundecamethylenediamine, tetraethylenepentamine	< 15 %	Xn, C, N R21/22-34-43-51-53
202-013-9	90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	< 10 %	Xn, Xi R22-36/38
265-199-0	64742-95-6	Solvent naphtha (petroleum), light arom.	< 1 %	Xn, Xi, N R10-37-51-53-65-66-67

Full text of each relevant R phrase can be found in heading 16.

## 4. First aid measures

#### **General information**

Remove contaminated soaked clothing immediately.

Call a physician immediately.

GB - EN Page 1 of 7

TIP TOP Oberflächenschutz Elbe GmbH

Revision date: 21.07.2009 Revision no.: 1,00

**TIP TOP GROUT 648+ HARDENER** 

00359-1062



#### 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.

Seek medical treatment by eye specialist.

# After ingestion

Do not induce vomiting.

Drink plenty of water or milk.

Never give anything by mouth to an unconscious person.

Summon a doctor immediately.

Induce vomiting only upon the advice of a physician.

# 5. Fire-fighting measures

## Suitable extinguishing media

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

# Extinguishing media which must not be used for safety reasons

Full water jet

# Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Fire may produce:

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

## Special protective equipment for fire-fighters

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.

## 6. Accidental release measures

#### **Personal precautions**

In case of vapour formation use respirator.

Ensure adequate ventilation.

Use personal protective clothing.

# **Environmental precautions**

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

Do not discharge into the subsoil/soil.

## Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

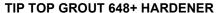
Clean contaminated surface thoroughly.

## 7. Handling and storage

GB - EN Page 2 of 7

TIP TOP Oberflächenschutz Elbe GmbH

Revision date: 21.07.2009 Revision no.: 1,00



00359-1062



#### 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.

#### **Storage**

## 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.

Halogenated compounds.

Acrylates, aldehydes, ketones, copper and copper alloys.

#### Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Storageclass (VCI)

8 A

# 8. Exposure controls/personal protection

#### **Exposure limit values**

# **Exposure controls**

## Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

#### Protective and hygiene measures

Do not inhale vapours.

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.

# Respiratory protection

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

#### **Hand protection**

Chemical protective glove 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.

Tightly fitting goggles

# Skin protection

Long sleeved clothing.

GB - EN Page 3 of 7

TIP TOP Oberflächenschutz Elbe GmbH

Revision date: 21.07.2009

**TIP TOP GROUT 648+ HARDENER** 

00359-1062



## 9. Physical and chemical properties

## **General information**

Physical state Liquid Colour Amber

Odour Similar to amine

# Important health, safety and environmental information

Test method

Changes in the physical state

Flash point > 100 °C

Revision no.: 1,00

**Flammability** 

Lower explosion limits n.d.

Ignition temperature n.d.

Vapour pressure : < 1 hPa

at (20 °C)

Density (at 20 °C): 0,96 - 1,00 g/cm³ Water solubility: Completely miscible

at (20 °C)

Viscosity / dynamic : 200 - 400 mPa·s

at (25 °C)

# 10. Stability and reactivity

# **Conditions to avoid**

To avoid thermal decomposition, do not overheat.

# Materials to avoid

Acids and bases

Halogenated compounds

Acrylates, aldehydes, ketones, copper and copper alloys.

# **Hazardous decomposition products**

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

An inappropriate handling, for instance major amounts of product combined with strong heat and nitrosating agents, renders possible a cleavage of nitrosamines in traces.

# **Additional information**

No decomposition if stored and applied as directed.

#### 11. Toxicological information

#### Empirical data on effects on humans

The product causes burns of eyes, skin and mucous membranes.

Harmful in contact with skin.

Sensitization through skin contact possible.

Ingestion causes burns of the upper digestive and respiratory tracts.

Components of the product may be absorbed into the body through the skin.

Contact with eyes may cause corneal injury.

May cause sensitization of susceptible persons by inhalation.

#### **Further information**

GB - EN Page 4 of 7

TIP TOP Oberflächenschutz Elbe GmbH

Revision date : 21.07.2009

**TIP TOP GROUT 648+ HARDENER** 

00359-1062

Revision no.: 1,00



An inappropriate handling, for instance major amounts of product combined with strong heat and nitrosating agents, renders possible a cleavage of nitrosamines in traces.

#### 12. Ecological information

#### **Further information**

Do not flush into surface water or sanitary sewer system.

Hazard to waters

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

## 13. Disposal considerations

#### Advice on disposal

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

#### 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

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.

# 14. Transport information

# Land transport (ADR/RID)

ADR/RID class	8
Classification code :	C7
Hazard-no.	80
UN number	2735
Hazard label	8
ADR/RID packing group	III
Limited quantity	LQ 7

#### **Description of the goods**

Amines, liquid, corrosive, n.o.s. (Tetraethylenpentamin, Amines, polyethylenepoly-, triethylenetetramine fraction)

# Other applicable information (land transport)

LQ 7: combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

Tunnel restriction code: E Transport category: 3

# **Inland waterways transport**

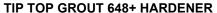
#### **Marine transport**

IMDG code	8
UN number	2735
Marine pollutant	No

GB - EN Page 5 of 7

TIP TOP Oberflächenschutz Elbe GmbH

Revision date: 21.07.2009



00359-1062

Revision no.: 1,00



**EmS** F-A; S-B IMDG packing group Ш

5 L / 30 kg Limited quantity:

Hazard label

## Description of the goods

AMINES, LIQUID, CORROSIVE, N.O.S. (tetraethylene pentamine and triethylene triamine)

#### Other applicable information (marine transport)

Limited quantities (section 3.4): combination packaging: 5 I / 30 kg (total gross mass); trays: 5 I / 20 kg (total gross mass).

#### Air transport

ICAO/IATA-DGR 8 UN/ID number 2735 Hazard label IATA-packing instructions - Passenger 818 IATA-max. quantity - Passenger 5 L 820 IATA-packing instructions - Cargo 60 L IATA-max. quantity - Cargo ICAO packing group Ш

Limited quantity Passenger Y818 / 1 L

#### **Description of the goods**

AMINES, LIQUID, CORROSIVE, N.O.S. (tetraethylene pentamine and triethylene triamine, solution)

## 15. Regulatory information

## Labelling

Additional advice on labelling According to EC-regulations the product is to be labelled as follows:

Indication of danger C - Corrosive

# Hazardous component(s) to be indicated on label

3,6,9-triazaundecamethylenediamine, tetraethylenepentamine Amines, polyethylenepoly-, triethylenetetramine fraction

# R phrases

21 Harmful in contact with skin.

34 Causes burns.

43 May cause sensitization by skin contact.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

#### S phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

This material and its container must be disposed of in a safe way. 35 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible).

61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

# **National regulatory information**

**Employment restrictions** Observe employment restrictions for young people. Observe

employment restrictions for child bearing mothers and nursing.

2 - water contaminating Water contaminating class (D)

1999/13/EC (VOC) 0 %

> GB - EN Page 6 of 7

TIP TOP Oberflächenschutz Elbe GmbH

Revision date: 21.07.2009

**TIP TOP GROUT 648+ HARDENER** 

00359-1062



# 16. Other information

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

10	Flammable.
21	Harmful in contact with skin.
21/22	Harmful in contact with skin and if swallowed.
22	Harmful if swallowed.
34	Causes burns.
36/38	Irritating to eyes and skin.
37	Irritating to respiratory system.
43	May cause sensitization by skin contact.
51	Toxic to aquatic organisms.
52	Harmful to aquatic organisms.
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.

Revision no.: 1,00

#### **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.)

GB - EN Page 7 of 7