Print date: 09.05.2025



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## **TIP TOP HARDENER No. 8**

Revision date: 09.05.2025 Product code: 00359-1300 Page 1 of 12

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

### 1.1. Product identifier

TIP TOP HARDENER No. 8

Art.-No.

590 3790

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

#### Use of the substance/mixture

Hardener

# 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

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

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

<u>1.4. Emergency telephone</u> INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a) <u>number:</u> Public Poisons Information Line: +353 (0) 1 809 2166 (8am-10pm 7 days a

week)

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

# Regulation (EC) No 1272/2008

# Hazard components for labelling

Benzyl alcohol

Xylylenediamine

Triethylenetetramine

4,4'-lsopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products

with ethylenediamine

Signal word: Danger

Pictograms:







IRL - en

# **Hazard statements**

H290 May be corrosive to metals. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

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H410 Very toxic to aquatic life with long lasting effects.

## **Precautionary statements**

P260 Do not breathe vapour.

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

P273 Avoid release to the environment.

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

or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

## Special labelling of certain mixtures

EUH071 Corrosive to the respiratory tract.

## 2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

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

# 3.2. Mixtures

# **Chemical characterization**

Mixture containing following substances with additives:



according to Regulation (EC) No 1907/2006

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# **Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No	1272/2008)		
57214-10-5	Formaldehyde polymer with 1,3-be	nzenedimethanamine and phe	enol	< 45 %
	500-137-0		01-2119966906-20	
	Aquatic Acute 1, Aquatic Chronic 1	; H400 H410		
100-51-6	Benzyl alcohol			< 45 %
	202-859-9	603-057-00-5	01-2119492630-38	
	Acute Tox. 4, Eye Irrit. 2, Skin Sens	s. 1B; H302 H319 H317	•	
1477-55-0	Xylylenediamine			< 20 %
	216-032-5		01-2119480150-50	
	Acute Tox. 4, Acute Tox. 4, Skin Co H317 H412 EUH071			
112-24-3	Triethylenetetramine			< 20 %
	203-950-6	612-059-00-5		
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H318 H317 H412			
72480-18-3	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with ethylenediamine			< 10 %
	500-253-1		01-2120766318-46	
	Acute Tox. 4, Skin Corr. 1, Eye Dar H314 H318 H317 H400 H410	n. 1, Skin Sens. 1, Aquatic Ac	ute 1, Aquatic Chronic 1; H302	
4097-89-6	N,N-bis(2-aminoethyl)ethylenediam	nine		< 5 %
	223-857-4			
	Acute Tox. 2, Acute Tox. 3, Skin Co	rr. 1B, Eye Dam. 1, Aquatic C	hronic 3; H310 H301 H314 H318	

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

### Specific Conc. Limits. M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Cond	c. Limits, M-factors and ATE	
100-51-6	202-859-9	Benzyl alcohol	< 45 %
	oral: ATE 12	00 mg/kg	
1477-55-0	216-032-5	Xylylenediamine	< 20 %
	I	C50 = 2,4 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 kg; oral: LD50 = 930 mg/kg	
112-24-3	203-950-6	Triethylenetetramine	< 20 %
	dermal: ATE	= 1100 mg/kg; oral: LD50 = 2500 mg/kg	
72480-18-3	500-253-1	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with ethylenediamine	< 10 %
	oral: ATE = 5	00 mg/kg	
4097-89-6	223-857-4	N,N-bis(2-aminoethyl)ethylenediamine	< 5 %
	dermal: LD50	) = 117 mg/kg; oral: LD50 = 246 mg/kg	

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

# **General information**

Remove contaminated soaked clothing immediately.



according to Regulation (EC) No 1907/2006

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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.

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.

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 or if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Corrosive to the respiratory tract.

# 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

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

# General advice

Ensure adequate ventilation.

Keep away noninvolved persons.

## For non-emergency personnel

Avoid contact with skin, eyes and clothing.

Do not breathe vapours.



according to Regulation (EC) No 1907/2006

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#### For emergency responders

In case of vapour formation use respirator.

Use personal protective clothing.

#### 6.2. Environmental precautions

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

Do not discharge into the subsoil/soil.

## 6.3. Methods and material for containment and cleaning up

#### For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

#### For cleaning up

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

Shovel into suitable container for disposal.

Do not use metal containers.

## 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Informations 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 thoroughly ventilated areas.

# Advice on protection against fire and explosion

No special protective measures against fire required.

# Advice on general occupational hygiene

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.

# 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.

Do not use metal containers.

## Hints on joint storage

Incompatible with acids.

# Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

# 7.3. Specific end use(s)

Hardener

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

#### 8.1. Control parameters

## Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
1477-55-0	m-Xylene alpha,alpha'-diamine (m-phenylenebis(methylamine))	-	0.1		TWA (8 h)	



according to Regulation (EC) No 1907/2006

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#### **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
100-51-6 Benzyl alcohol				
Worker DNEL,	long-term	inhalation	systemic	22 mg/m³
Worker DNEL, acute		inhalation	systemic	110 mg/m³
Worker DNEL, long-term		dermal	systemic	8 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	40 mg/kg bw/day

#### **PNEC values**

CAS No	Substance		
Environmental	Environmental compartment		
100-51-6 Benzyl alcohol			
Freshwater		1 mg/l	
Marine water		0,1 mg/l	
Freshwater sediment 5		5,27 mg/kg	
Marine sediment		0,527 mg/kg	
Soil 0,456		0,456 mg/kg	

### 8.2. Exposure controls

## Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

## Individual protection measures, such as personal protective equipment

# 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 (DIN EN ISO 6530)

## Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

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

## 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Yellowish
Odour: Amine like

# Changes in the physical state

Melting point/freezing point:

n. d.

Boiling point or initial boiling point and

> 107 °C

boiling range:



according to Regulation (EC) No 1907/2006

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Sublimation point:	n.a.	
Softening point:	n. d.	
Flash point:	> 112 °C	
Flammability Solid/liquid:	n.a.	
Explosive properties  The product is not explosive.		
Lower explosion limits:	n. d.	
Upper explosion limits:	n. d.	
Auto-ignition temperature:	n. d.	
Self-ignition temperature Solid: Gas:	n.a. n.a.	
Decomposition temperature:	n. d.	
pH-Value: Viscosity / dynamic: (at 25 °C)	> 11 260 mPa⋅s	
Viscosity / kinematic:	n. d.	
Flow time:	n. d.	
Water solubility: (at 20 °C)	Slightly miscible	
Solubility in other solvents n. d.		
Partition coefficient n-octanol/water:	n. d.	
Vapour pressure:	n. d.	
Density (at 21 °C):	1,08 g/cm³	
Bulk density:	n.a.	
Relative vapour density:	n. d.	
9.2. Other information  Information with regard to physical hazard class	os.	
Oxidizing properties  Not oxidising.	es	
Other safety characteristics		
Solvent separation test:	n. d.	
Solvent content:	0 %	
Evaporation rate:	n. d.	
Further 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 strong acids.

Gives off hydrogen by reaction with metals.

#### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

#### 10.5. Incompatible materials

Acids

Hydrogen, by reaction with metals.

## 10.6. Hazardous decomposition products

No hazardous decomposition products known.

Fire may produce:

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

# **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

Harmful if swallowed.

No toxical dates available.

# **ATEmix calculated**

ATE (oral) 955,8 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 18,52 mg/l; ATE (inhalation dust/mist) 2,525 mg/l

## Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation: Causes serious eye damage.

Corrosive to the respiratory tract.

## Sensitising effects

May cause an allergic skin reaction. (Benzyl alcohol; Xylylenediamine; Triethylenetetramine;

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with ethylenediamine)

# Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

### STOT-single exposure

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

#### STOT-repeated exposure

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

# **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.

# 11.2. Information on other hazards

# **Endocrine disrupting properties**

No data available

#### Other information

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## **SECTION 12: Ecological information**

## 12.1. Toxicity



according to Regulation (EC) No 1907/2006

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Ecological dates are not available.

Very toxic 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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7. Other adverse effects

Hazard to waters.

#### **Further information**

Do not flush into surface water or sanitary sewer system.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## **Disposal recommendations**

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

## List of Wastes Code - 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;

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 or ID number: UN 2735

14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Xylylenediamine,

Triethylenetetramine)

14.3. Transport hazard class(es):

14.4. Packing group: Ш

Hazard label:



8

Classification code:

Limited quantity: 1 L / 30 kg F2

Excepted quantity:



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Transport category: 2
Hazard No: 80
Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 2735

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

Triethylenetetramine)

 14.3. Transport hazard class(es):
 8

 14.4. Packing group:
 II

 Hazard label:
 8



Classification code: C7

Limited quantity: 1 L / 30 kg
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 2735

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

diamine)

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



Marine pollutant:

Limited quantity:

Excepted quantity:

Excepted

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2735

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

diamine)

 14.3. Transport hazard class(es):
 8

 14.4. Packing group:
 II

 Hazard label:
 8



Limited quantity Passenger: 0.5 L

Passenger LQ: Y840

Excepted quantity: E2

IATA-packing instructions - Passenger:851IATA-max. quantity - Passenger:1 LIATA-packing instructions - Cargo:855IATA-max. quantity - Cargo:30 L

14.5. Environmental hazards





according to Regulation (EC) No 1907/2006

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ENVIRONMENTALLY HAZARDOUS: Yes



#### 14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

## 14.7. Maritime transport in bulk according to IMO instruments

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

< 45 %

#### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Directive 2004/42/EC on VOC in

paints and varnishes:

Information according to Directive

2012/18/EU (SEVESO III):

E1 Hazardous to the Aquatic Environment

## National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

# 15.2. Chemical safety assessment

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

## **SECTION 16: Other information**

## Changes

This data sheet contains changes from the previous version in section(s): 2,3,6,7,8,9,10,11,12,13,14,15.

#### 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



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LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

# Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Acute Tox. 4; H302	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

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

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very 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)"

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