

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

1.1. Product identifier

TIP TOP CHEMOKITT FU HARDENER 1

ArtNo.	
591 0015	
REACH Registration Number:	01-2119958967-12-0000
CAS No:	88-95-9
EC No:	201-869-0

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
Telefax:	+49(0)3491/635-552
Responsible Department:	Responsible for the safety data sheet: sds@gbk-ingelheim.de
<u>1.4. Emergency telephone</u> 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 Respiratory or skin sensitisation: Resp. Sens. 1 Respiratory or skin sensitisation: Skin Sens. 1 Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Harmful in contact with skin. Causes severe skin burns and eye damage. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled . May cause an allergic skin reaction.

2.2. Label elements

Hazard components for labelling

Phthaloyl dichloride

Signal word:

Pictograms:



Hazard statements

nazara otatomonto	
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

Precautionary statements

Frecautionally Staten	nents
P260	Do not breathe gas/vapour/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Revision date: 14.12.2016 Revision No: 1,0 Product code: 00359-1289



P301+P330+P331 P303+P361+P353	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with	
F 303+F 301+F 333	water/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		
EUH014	Reacts violently with water.	

2.3. Other hazards

Not known.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C8 H4 Cl2 O2
Molecular weight:	203,01

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
88-95-9	Phthaloyl dichloride		> 99 %	
	201-869-0		01-2119958967-12-0000	
	Acute Tox. 4, Skin Corr. 1B, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H312 H314 H334 H317 H335			

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. Call a physician immediately.

After inhalation

Move to fresh air in case of accidental inhalation of vapours. If patient is not breathing, apply artificial respiration. Call a physician immediately.

After contact with skin

In case of contact with skin wash off immediately with plenty of water. Seek medical treatment immediately.

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. 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 in contact with skin.
Causes severe skin burns and eye damage.
May cause respiratory irritation.
May cause an allergic skin reaction.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
4.3. Indication of any immediate medical attention and special treatment needed

TIP TOP CHEMOKITT FU HARDENER 1 Revision date: 14.12.2016 Revision No: 1.0

Revision date: 14.12.2016 Product code: 00359-1289

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 and carbon dioxide Hydrochloric acid Chlorine compounds.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Cool containers at risk with water spray jet. Collect contaminated firefighting water separately, must not be discharged into the drains. 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. Clean contaminated surface thoroughly.

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. Do not use metal containers.

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

Care for thoroughly room ventilation, if necessary suck off at workplace. Keep container tightly closed. Handle and open container with care.

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.

Protect from atmospheric moisture and water.

Protect against direct sun radiation.

Do not use metal containers.

Recommended storage temperature: > 10°C

Advice on storage compatibility

Incompatible with:



Revision date: 14.12.2016 Product code: 00359-1289

Oxidizing agents Alcohols

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

Additional advice on limit values No data available.

8.2. Exposure controls

Appropriate engineering controls Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not inhale gases/vapours/aerosols. 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.

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.

Revision No: 1.0

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

Acid-resistant protective clothing, rubber boots.

Respiratory protection

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Liquid Colourless Pungent	
1 - 2	(200 g/l H2O)
15 - 16 °C	
281,1 °C	
135 °C	DIN EN ISO 2719
ı.d.	
370 °C	DIN 51794
< 10 hPa	
1,4089 g/cm³	
	Colourless Pungent - 2 5 - 16 °C 281,1 °C 35 °C 1.d. 370 °C = 10 hPa



Revision date: 14.12.2016 Product code: 00359-1289 REMA

Water solubility:	Reacts with water.	
Viscosity / dynamic:	10,4 mPa·s	
(at 20 °C)		
Flow time:	< 12 s	4 DIN EN ISO 2431
(at 23 °C)		
9.2. Other information		
Refractive index: 1,5684 (20°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 oxidizing agents.		

Revision No: 1.0

Reactions with alcohols. Reactions with alkalies. Reacts violently with water.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

oxidizing agents Bases. alcohols

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide Hydrochloric acid

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful in contact with skin. No toxicological data available.

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

May cause an allergic skin reaction. (Phthaloyl dichloride) May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Phthaloyl dichloride)

STOT-single exposure

May cause respiratory irritation. ((Phthaloyl dichloride))

Severe effects after repeated or prolonged exposure

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

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Practical experience

Other observations

Ingestion can cause gastrointestinal irritation, headache, nausea, vomiting, vertigo, intoxication, unconsciousness and death.

Inhalation of high vapour concentration may cause symptoms like headache, dizziness, tiredness,

Revision date: 14.12.2016 Product code: 00359-1289

nausea and vomiting.

SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available. **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.

Revision No: 1.0

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. Can be incinerated, when in compliance with local regulations.

Waste disposal number of waste from residues/unused products

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 packaging should be emptied as far as possible and after appropriate cleansing may be

taken for reuse.

080409

Packaging that cannot be cleaned should be disposed of like the product.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 3265
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phthaloyl dichloride)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	
Classification code:	C3
Limited quantity:	1 L / 30 kg
Excepted quantity:	E2
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E
Inland waterways transport (ADN)	



TIP TOP CHEMOKITT FU HARDENER 1 Revision date: 14.12.2016 Revision No: 1,0

Revision date: 14.12.2016 Product code: 00359-1289



<u>14.1. UN number:</u>	UN 3265
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phthaloyl dichloride)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
	8
Classification code:	C3
Limited quantity:	1 L / 30 kg
Excepted quantity:	E2
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 3265
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phthaloyl dichloride)
14.3. Transport hazard class(es):	8
14.4. Packing group:	ll
Hazard label:	8
	8
Marine pollutant:	No
Limited quantity:	1 L / 30 kg E2
Excepted quantity: EmS:	EZ F-A, S-B
Air transport (ICAO-TI/IATA-DGR)	
<u>14.1. UN number:</u>	UN 3265
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phthaloyl dichloride)
14.3. Transport hazard class(es):	8
14.4. Packing group:	11
Hazard label:	8
Limited quantity Passenger:	0.5 L
Passenger LQ:	Y840 E2
Excepted quantity: IATA-packing instructions - Passenger:	E2 851
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:	1 L
IATA-packing instructions - Cargo:	855
IATA-max. quantity - Cargo:	30 L
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	no
<u>14.6. Special precautions for user</u> Handle in accordance with good industrial	hygiene and safety practice.
14.7. Transport in bulk according to Anne	ex II of Marpol 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

0 %

EU regulatory information

2004/42/EC (VOC):

Revision date: 14.12.2016 Product code: 00359-1289



National regulatory information

molovment restrictions.

Employment restrictions:	Observe restrictions to employment for juvenils 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 contaminating class (D):	3 - highly water contaminating

Revision No: 1.0

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)

H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled .
H335	May cause respiratory irritation.
EUH014	Reacts violently with water.

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.