

according to UK REACH Regulation



# **ESKANOL FU HARDENER**

Revision date: 13.10.2023

Product code: 00359-1359

Page 1 of 10

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

## 1.1. Product identifier

ESKANOL FU HARDENER

## Art.-No.

10763, 10764	
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

Hardener

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

Manufacturer		
Company name:	TIP TOP Oberflaechenschutz Elbe Gr	nbH
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
Supplier		
Company name:	REMA TIP TOP INDUSTRY UK LTD	
Street:	Plumtree Industrial Estate, Harworth	
Place:	Doncaster, DN11 8EW, South Yorksh	nire
Telephone:	+44 (0)1302 711233	
Internet:	www.rema-tiptop.co.uk	
1.4. Emergency telephone	INTERNATIONAL: +49 - (0) 6132 - 84	463, GBK GmbH (24h - 7d/w - 365d/a)
number:	In England and Wales: NHS 111 In Sc	otland: NHS 24 - dial 111

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

Acute Tox. 4; H312 Skin Corr. 1B; H314 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

## **GB CLP Regulation**

#### Hazard components for labelling Phthaloyl dichloride

Signal word:





according to UK REACH Regulation



## **ESKANOL FU HARDENER**

Revision date: 13.10.2023

Product code: 00359-1359

Page 2 of 10

## Hazard statements

azaru statements	
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**

countionaly statement	13
P260	Do not breathe gas/vapour/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.

## 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.

This substance does not have endocrine disrupting properties with respect to non-target organisms.

## **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	
	GHS Classification			
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.

nc. Limits, M-fac	ctors and ATE	
AS No EC No Chemical name		Quantity
Specific Conc. Limits, M-factors and ATE		
-95-9 201-869-0 Phthaloyl dichloride		> 99 %
dermal: ATE = 1100 mg/kg		
	EC No Specific Conc. 201-869-0	Specific Conc. Limits, M-factors and ATE   201-869-0 Phthaloyl dichloride

## **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.



according to UK REACH Regulation



## **ESKANOL FU HARDENER**

Revision date: 13.10.2023

Product code: 00359-1359

Page 3 of 10

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

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

## General advice

Ensure adequate ventilation.

Keep away noninvolved persons.

## For non-emergency personnel

Do not breathe vapours.

Avoid contact with skin, eyes and clothing.

## For emergency responders

In case of vapour formation use respirator.



according to UK REACH Regulation



## **ESKANOL FU HARDENER**

Revision date: 13.10.2023

Product code: 00359-1359

Page 4 of 10

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

## 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.

#### Other information

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

### Hints on joint storage

Incompatible with: Bases 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

This product does not contain any substances for which a Workplace Exposure Limit has been set in concentrations above the limits.



according to UK REACH Regulation



## **ESKANOL FU HARDENER**

Revision date: 13.10.2023

Product code: 00359-1359

Page 5 of 10

## 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

Protective gloves resistant to chemicals made off butyl, minimum coat thickness 0.7 mm, permeation resistance approx. 480 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de. Protective gloves resistant to chemicals made off viton, minimum coat thickness 0.7 mm, permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Vitoject 890> made by www.kcl.de. 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

Physical state:	Liquid		
Colour:	Colourless		
Odour:	Pungent		
			Test method
pH-Value:		n.d.	
Changes in the physical state			
Melting point/freezing point:		approx. 16 °C	
Boiling point or initial boiling point and		approx. 281 °C	
boiling range:			
Sublimation point:		n.a.	
Softening point:		n.d.	
Flash point:		113 °C	Closed cup
Sustaining combustion:		Sustaining combustion	
Flammability			
Solid/liquid:		n.a.	
Explosive properties The product is not explosive.			
Lower explosion limits:		n.d.	
Upper explosion limits:		n.d.	
		n.d.	



according to UK REACH Regulation



ESKANOL FU HARDENER				
Revision date: 13.10.2023	Product code: 00359-1359	Page 6 of 10		
Auto-ignition temperature:	n.d.			
<b>Self-ignition temperature</b> Solid: Gas:	n.a. n.a.			
Decomposition temperature:	n.d.			
Oxidizing properties Not oxidising.				
Vapour pressure: (at 47 °C)	39,997 hPa			
Density (at 20 °C):	1,41 g/cm³			
Bulk density:	n.a.			
Water solubility:	Reacts with water.			
Solubility in other solvents n.d.				
Partition coefficient n-octanol/water:	Log Pow: 0,88			
Viscosity / dynamic: (at 20 °C)	n.d.			
Viscosity / kinematic:	n.d.			
Flow time: (at 23 °C)	n.d.			
Relative vapour density:	n.d.			
Evaporation rate:	n.d.			
Solvent separation test:	0 %			
Solvent content:	0 %			
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. 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

No hazardous decomposition products known. Fire may produce:



according to UK REACH Regulation



## ESKANOL FU HARDENER

Revision date: 13.10.2023

Product code: 00359-1359

Page 7 of 10

Hydrochloric acid Phosgene

## **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### 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)

## Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

May cause respiratory irritation. (Phthaloyl dichloride)

#### 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

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, 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

This substance does not meet the PBT/vPvB criteria of UK REACH.

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### 12.7. Other adverse effects

Severe hazard to waters.

#### Further information

Do not flush into surface water or sanitary sewer system.



according to UK REACH Regulation



## **ESKANOL FU HARDENER**

Revision date: 13.10.2023

Product code: 00359-1359

Page 8 of 10

#### **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 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.

## **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:	8
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)	
<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
Classification code:	C3 Č
Limited quantity:	1 L / 30 kg
Excepted quantity:	E2
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 3265



according to UK REACH Regulation



Revision date: 13.10.2023	ESKANOL FU HARDENER Product code: 00359-1359	Page 9 of 10
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:	и П	
Hazard label:	8	
Marine pollutant:	No	
Limited quantity:	1 L / 30 kg	
Excepted quantity: EmS:		
Ems: Air transport (ICAO-TI/IATA-DGR)	F-A, S-B	
• • •	UN 3265	
<u>14.1. UN number:</u> 14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phthaloyl dichloride)	
14.2. ON proper snipping name. 14.3. Transport hazard class(es):	8	
<u>14.3. Transport nazaro class(es):</u> 14.4. Packing group:		
Hazard label:	8	
	B	
Limited quantity Passenger:	0.5 L	
Passenger LQ:	Y840	
Excepted quantity:	E2	
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:	851 1 L	
IATA-max. quantity - r assenger. IATA-packing instructions - Cargo:	855	
IATA-max. quantity - Cargo:	30 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user		
Handle in accordance with good indust <u>14.7. Maritime transport in bulk according to</u> The transport takes place only in appro	o IMO instruments	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture	
<b>EU regulatory information</b> Restrictions on use (REACH, annex XVII): Entry 3		
2004/42/EC (VOC):	0 %	
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenil work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or pursing mothers.	e

nursing mothers.



according to UK REACH Regulation



## ESKANOL FU HARDENER Product code: 00359-1359

Revision date: 13.10.2023

Page 10 of 10

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**

### 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.

#### **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.