

# SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

## 1 PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

**Product name:** ECOCOOL 2929 -1

**Other means of identification:** For further information, please refer to section 9 of the SDS.

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

**Identified uses:** Coolant/ Cutting solution

**Uses advised against:** No uses advised against identified.

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

#### Manufacturer

Fuchs Schmierstoffe GmbH  
Friesenheimer Str. 19  
68169 Mannheim

US Distributor  
Fuchs Lubricants Co.  
17050 Lathrop Avenue  
Harvey, IL 60426  
(708) 333-8900  
(800) 255-3924 24 hrs Emergency

Telephone:

+49 621 3701-0 (ZENTRALE)

Fax:

+49 621 3701-570

#### Contact Person:

Fuchs Schmierstoffe GmbH Abteilung Produktsicherheit

Telephone:

+49 621 3701-1333

Fax:

+49 621 3701-7303

E-mail:

PRODUKTSICHERHEIT@FUCHS-SCHMIERSTOFFE.DE

### 1.4 US contact telephone :

708-333-8900

#### Emergency telephone:

**800-255-3924**

## 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to the legislation in force.

#### Health Hazards

Skin Corrosion/Irritation

Category 2

Serious Eye Damage/Eye Irritation

Category 2A

Skin sensitizer

Category 1

#### Environmental Hazards

Chronic hazards to the aquatic environment

Category 2

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**Product name:** ECOCOOL 2929 -1

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**Hazard summary**

**Physical Hazards:** No data available.

**2.2 Label Elements**



**Signal Words:** Warning

**Hazard Statement(s):** H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H317: May cause an allergic skin reaction.  
H411: Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

**Prevention:** P264: Wash thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P272: Contaminated work clothing must not be allowed out of the workplace.  
P273: Avoid release to the environment.

**Response:** P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P321: Specific treatment (see this label).  
P363: Wash contaminated clothing before reuse.  
P391: Collect spillage.

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Product name:** ECOCOOL 2929 -1

**2.3 Other hazards:** By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

**Unknown toxicity:** Due to information available product does not contain any ingredients of unknown toxicity.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

**General information:** Mixture of mineral base oil, anionic and nonionic agents and corrosion preventing additives in combination with stabilizers based on glycol-fatty alcohols. This product is applied only as solution or emulsion in water.

Chemical name	Identifier	Concentration *	Notes
white mineral oil, low viscous	8042-47-5	20.00 - <50.00%	
carboxylic acid derivative, ethoxylated	85536-23-8	10.00 - <20.00%	
Triaryl phosphate, alkylated	68937-40-6	5.00 - <10.00%	
Triazole derivative	95-14-7	2.50 - <5.00%	
Alkylether carboxylic acid	57635-48-0	1.00 - <3.00%	
Carboxylic acid mixture	53980-88-4	1.00 - <5.00%	
Fatty alcohol, ethoxylated	68920-66-1	0.10 - <1.00%	
Iodobutylcarbamate	55406-53-6	0.25 - <1.00%	
Isothiazolinone derivative	4299-07-4	0.10 - <0.25%	

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Product name:** ECOCOOL 2929 -1

## Classification

Chemical name	Classification	
white mineral oil, low viscous	8042-47-5	Asp. Tox. 1;H304
carboxylic acid derivative, ethoxylated	85536-23-8	Skin Irrit. 2;H315, Aquatic Chronic 3;H412
Triaryl phosphate, alkylated	68937-40-6	Aquatic Chronic 1;H410, Aquatic Acute 1;H400
Triazole derivative	95-14-7	Acute Tox. 4;H302, Eye Irrit. 2;H319, Aquatic Chronic 2;H411
Alkylether carboxylic acid	57635-48-0	Eye Dam. 1;H318, Skin Irrit. 2;H315
Carboxylic acid mixture	53980-88-4	Skin Irrit. 2;H315, Eye Irrit. 2;H319
Fatty alcohol, ethoxylated	68920-66-1	Skin Irrit. 2;H315, Aquatic Acute 1;H400, Aquatic Chronic 3;H412
Iodobutylcarbamate	55406-53-6	Acute Tox. 4;H302, Acute Tox. 4;H332, Eye Dam. 1;H318, Skin Sens. 1;H317, STOT SE 3;H335, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 1
Isothiazolinone derivative	4299-07-4	Skin Corr. 1C;H314, Skin Sens. 1;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410

## 4 FIRST AID MEASURES

**General:** Instantly remove any clothing soiled by the product.

### 4.1 Description of first aid measures

**Inhalation:** Supply fresh air; consult doctor in case of symptoms.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.

**Ingestion:** Rinse mouth. Call a POISON CENTRE/doctor/ if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed:** Causes serious eye irritation. Causes skin irritation.

**4.3 Indication of any immediate medical attention and special treatment needed** Hand over this safety data sheet to the physician with the special comment "watermiscible cutting oil". Get medical attention if symptoms occur.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** CO<sub>2</sub>, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added

**Unsuitable extinguishing media:** Water with a full water jet.

**5.2 Special hazards arising from the substance or mixture:** During fire, gases hazardous to health may be formed.

### 5.3 Advice for firefighters

**Special fire fighting procedures:** Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. In case of spills, beware of slippery floors and surfaces.

**6.2 Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers). Environmental manager must be informed of all major spillages. Do not allow to enter drainage system, surface or ground water.

**6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

**6.4 Reference to other sections:** See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

**Product name:** ECOCOOL 2929 -1

## SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Avoid contact with eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Avoid contact with skin. Prevent formation of aerosols. Observe good industrial hygiene practices. Provide adequate ventilation.
- 7.2 Conditions for safe storage, including any incompatibilities:** Local regulations concerning handling and storage of waterpolluting products have to be followed. Store above freezing.
- 7.3 Specific end use(s):** not applicable

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1.Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
white mineral oil, low viscous - Mist.	PEL	5 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
white mineral oil, low viscous - Mist.	TWA	5 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
white mineral oil, low viscous - Inhalable fraction.	TWA	5 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (02 2012)

### 8.2.Exposure controls

- Appropriate engineering controls:** Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

- General information:** Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.
- Eye/face protection:** Safety glasses (EN 166) recommended during refilling. Avoid contact with eyes.

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#### **Skin protection**

##### **Hand Protection:**

Material: Nitrile butyl rubber (NBR).  
Min. Breakthrough time:  $\geq 480$  min  
Recommended thickness of the material:  $\geq 0.38$  mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

##### **Other:**

Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

##### **Respiratory Protection:**

Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.

##### **Thermal hazards:**

No data available.

##### **Hygiene measures:**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

##### **Environmental Controls:**

No data available.

## **9 PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Pale yellow
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not applicable for mixtures
<b>pH:</b>	7.4 (DIN 51369, 100 g/l)
<b>Freezing point:</b>	Not applicable for mixtures
<b>Boiling Point:</b>	Value not relevant for classification
<b>Flash Point:</b>	not applicable
<b>Evaporation Rate:</b>	Not applicable for mixtures
<b>Flammability (solid, gas):</b>	Value not relevant for classification
<b>Flammability Limit - Upper (%)—:</b>	Not applicable for mixtures
<b>Flammability Limit - Lower (%)—:</b>	Not applicable for mixtures
<b>Vapor pressure:</b>	Not applicable for mixtures

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<b>Vapor density (air=1):</b>	Not applicable for mixtures
<b>Density:</b>	0.96 g/cm <sup>3</sup> (15.00 °C) (DIN 51757)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable for mixtures
<b>Autoignition Temperature:</b>	Value not relevant for classification
<b>Decomposition Temperature:</b>	Value not relevant for classification
<b>Kinematic viscosity:</b>	60 mm <sup>2</sup> /s (40 °C, DIN 51562-1)
<b>Explosive properties:</b>	Value not relevant for classification
<b>Oxidizing properties:</b>	Value not relevant for classification
<b>9.2 Other information</b>	No data available.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Stable under normal use conditions.
<b>10.2 Chemical Stability:</b>	Stable under normal use conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Stable under normal use conditions.
<b>10.4 Conditions to avoid:</b>	Stable under normal use conditions.
<b>10.5 Incompatible Materials:</b>	Strong oxidizing substances. Strong acids. Strong bases.
<b>10.6 Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## 11 TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	No data available.
<b>Skin Contact:</b>	Causes skin irritation.
<b>Eye contact:</b>	Causes eye irritation.



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## Acute toxicity

### Oral

#### Product:

ATEmix: 4,335.92 mg/kg

#### Specified substance(s)

white mineral oil, low viscous	LD 50 (Rat): > 5,000 mg/kg
carboxylic acid derivative, ethoxylated	LD 50 (Rat): > 2,001 mg/kg
Triaryl phosphate, alkylated	LD 50 (Rat): > 5,000 mg/kg
Triazole derivative	LD 50 (Rat): 560 mg/kg
Alkylether carboxylic acid	LD 50 (Rat): > 2,001 mg/kg
Carboxylic acid mixture	LD 50 (Rat): 6,176 mg/kg
Iodobutylcarbamate	LD 50 (Rat): 1,470 mg/kg

### Dermal

#### Product:

ATEmix: 3,195.39 mg/kg

#### Specified substance(s)

white mineral oil, low viscous	LD 50 (Rabbit): > 2,001 mg/kg
carboxylic acid derivative, ethoxylated	LD 50 (Rat): > 2,001 mg/kg
Triaryl phosphate, alkylated	LD 50 (Rat): > 2,001 mg/kg
Triazole derivative	LD 50 (Rabbit): > 2,000 mg/kg
Iodobutylcarbamate	LD 50 (Rabbit): > 2,001 mg/kg

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#### **Inhalation**

##### **Product:**

Not classified for acute toxicity based on available data.

##### **Specified substance(s)**

white mineral oil, low  
viscous

LC 50 (Rat, Female, Male, 4 h): > 5,000 mg/l

Iodobutylcarbamate

LC 50 (Rat, 4 h): 6.89 mg/l

#### **Skin Corrosion/Irritation:**

##### **Product:**

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

##### **Specified substance(s)**

Fatty alcohol, ethoxylated

OECD 404 (Rabbit): Irritating.

Iodobutylcarbamate

(Rabbit): Strongly irritating.

#### **Serious Eye Damage/Eye Irritation:**

##### **Product:**

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

##### **Specified substance(s)**

Fatty alcohol, ethoxylated

OECD 405 (Rabbit): Not irritant.

Iodobutylcarbamate

(Rabbit): Strongly irritating.

#### **Respiratory or Skin Sensitization:**

##### **Product:**

Skin sensitizer: Based on available data, the classification criteria are met.  
Respiratory sensitizer: Based on available data, the classification criteria are not met.

##### **Specified substance(s)**

white mineral oil, low  
viscous

No sensitizing effect (guinea pig); OECD 406

Fatty alcohol, ethoxylated

No sensitizing effect (guinea pig); OECD 406

#### **Germ Cell Mutagenicity**

##### **Product:**

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

#### **Carcinogenicity**

##### **Product:**

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

#### **IARC: IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

#### **NTP: US. National Toxicology Program (NTP) Report on Carcinogens:**

**Product name:** ECOCOOL 2929 -1

No carcinogenic components identified

**OSHASP: US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified

**Reproductive toxicity**

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

**Specific Target Organ Toxicity - Single Exposure**

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

**Specific Target Organ Toxicity - Repeated Exposure**

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

**Aspiration Hazard**

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

**12 ECOLOGICAL INFORMATION**

**12.1 Toxicity**

**Acute toxicity**

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

**Fish**

**Specified substance(s)**

white mineral oil, low viscous LC 50 (Fish, 96 h): > 1,000 mg/l (OECD 203)

carboxylic acid derivative, ethoxylated LC 50 (Fish, 96 h): 2.9 mg/l (OECD 203)

Triaryl phosphate, alkylated LC 50 (Fish, 96 h): 0.8 mg/l

Triazole derivative LC 50 (Fish, 96 h): 180 mg/l (OECD 203)

Alkylether carboxylic acid LC 50 (Fish, 96 h): > 1 mg/l

Carboxylic acid mixture LC 50 (Fish, 96 h): 15 mg/l

Fatty alcohol, ethoxylated LC 50 (Fish, 96 h): 1.3 mg/l

Iodobutylcarbamate LC 50 (Fish, 96 h): 0.067 mg/l

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#### **Aquatic Invertebrates**

##### **Specified substance(s)**

white mineral oil, low viscous EC 50 (Water Flea, 48 h): > 100 mg/l (OECD 202)

carboxylic acid derivative, ethoxylated EC 50 (Water Flea, 48 h): 3.8 mg/l (OECD 202)

Triaryl phosphate, alkylated EC 50 (Water Flea, 48 h): 0.202 mg/l

Triazole derivative EC 50 (Water Flea, 48 h): 15.8 mg/l

Carboxylic acid mixture EC 50 (Water Flea, 48 h): 22.5 mg/l

Iodobutylcarbamate EC 50 (Water Flea, 48 h): 0.16 mg/l

**Chronic ToxicityProduct:** Based on available data, the classification criteria are met.

#### **Fish**

##### **Specified substance(s)**

Iodobutylcarbamate NOEC (Fish, 96 h): 0.049 mg/l

#### **Aquatic Invertebrates**

##### **Specified substance(s)**

carboxylic acid derivative, ethoxylated NOEC (Water Flea, 21 d): 0.4 mg/l (OECD 211)

Triazole derivative NOEC (Water Flea, 21 d): 0.97 mg/l

Iodobutylcarbamate EC 50 (Water Flea, 21 d): 0.05 mg/l

#### **Toxicity to Aquatic Plants**

##### **Specified substance(s)**

carboxylic acid derivative, ethoxylated EC 50 (Alga, 72 h): 410 mg/l

Triazole derivative EC 50 (Alga, 72 h): 72 mg/l (OECD 201)

Carboxylic acid mixture EC 50 (Alga, 72 h): 62.9 mg/l

Iodobutylcarbamate EC 50 (Alga, 72 h): 0.022 mg/l

## **12.2 Persistence and Degradability**

**Product name:** ECOCOOL 2929 -1

#### Biodegradation

<b>Product:</b>	Not applicable for mixtures
<b>Specified substance(s)</b> carboxylic acid derivative, ethoxylated	Readily biodegradable
Triazole derivative	0.8 % (30 d) The product is heavily biodegradable.
Alkylether carboxylic acid	Readily biodegradable
Fatty alcohol, ethoxylated	95 % (7 d, OECD 302B) Readily biodegradable
Iodobutylcarbamate	Readily biodegradable

#### 12.3 Bioaccumulative potential

<b>Product:</b>	Not applicable for mixtures
<b>Specified substance(s)</b> Triazole derivative	Bioconcentration Factor (BCF): 4.14

#### 12.4 Mobility in soil:

<b>Product:</b>	Not applicable for mixtures
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#### 12.5 Results of PBT and vPvB assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

#### 12.6 Other adverse effects:

Toxic to aquatic life with long lasting effects.

### 13 Disposal considerations

#### 13.1 Waste treatment methods

<b>General information:</b>	Dispose in accordance with all applicable regulations.
<b>Disposal methods:</b>	Discharge, treatment, or disposal may be subject to national, state, or local laws. When storing used products, ensure that the waste categories and mixing instructions are observed. Do not empty into drains; dispose of this material and its container in a safe way. Product contains in the application concentration traces of iodine containing substances; this can result in an AOX value.

### 14 TRANSPORT INFORMATION

#### DOT

Not regulated.

**Product name:** ECOCOOL 2929 -1

**IMDG - International Maritime Dangerous Goods Code**

14.1 UN Number: UN 3082  
 14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
 LIQUID, N.O.S.(Triaryl phosphate, alkylated,  
 Iodobutylcarbamate)  
 14.3 Transport Hazard Class(es): 9  
 14.4 Subsidiary risk label: –  
 14.5 Packing Group: III  
 14.6 Label(s): 9  
 14.7 Marine Pollutant: P  
 14.8 EmS No.: F-A; S-F

**IATA**

14.1 UN Number: UN 3082  
 14.2 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Triaryl  
 phosphate, alkylated, Iodobutylcarbamate)  
 14.3 Transport Hazard Class(es): 9  
 14.4 Subsidiary risk label: –  
 14.5 Packing Group: III  
 14.6 Label(s): 9MI

**15 REGULATORY INFORMATION**

**US Federal Regulations**

**US State Regulations**

**Inventory Status**

TSCA	On or in compliance with the inventory
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**16 OTHER INFORMATION**

**Revision Information:** Vertical lines in the margin indicate an amendment.

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**Product name:** ECOCOOL 2929 -1

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**Wording of the R-phrases and H-statements in section 2 and 3**

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Revision Date:** 14.07.2017

**Disclaimer:** The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.