

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

#### 1.1 Product identifier

**Product name:** OPTA COOL 500 | 5-L-GEBINDE

#### 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 / Supplier** Fuchs Schmierstoffe GmbH  
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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

**Classification according to Regulation (EC) No 1272/2008 as amended.**

##### Health Hazards

Serious eye irritation Category 2 H319: Causes serious eye irritation.

**Product name:** OPTA COOL 500 | 5-L-GEBINDE

**Environmental Hazards**

Chronic hazards to the aquatic environment

Category 3

H412: Harmful to aquatic life with long lasting effects.

**Hazard summary**

**Physical Hazards:** No data available.

**2.2 Label Elements**



**Signal Words:** Warning

**Hazard Statement(s):** H319: Causes serious eye irritation.  
H412: Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

**Prevention:** P262: Do not get in eyes, on skin, or on clothing.  
P273: Avoid release to the environment.

**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.

**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.

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

**3.2 Mixtures**

**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.

**Product name:** OPTA COOL 500 | 5-L-GEBINDE

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
Sodium sulfonate	EINECS: 271-781-5	1,00% - <5,00%	01-2119527859-22	
acid, ionic equilibrium with organic bases	Neutralisation product (*)	1,00% - <5,00%		
Modified alkanolamide	Polymer	1,00% - <3,00%		
Fatty alcohol, ethoxylated	EC: 500-236-9	2,50% - <5,00%	01-2119489407-26	
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1,00% - <5,00%		
Fatty alcohol, ethoxylated	Polymer	2,50% - <5,00%		
Sodium sulfonate	EINECS: 271-781-5	1,00% - <5,00%	01-2119527859-22	
Glycol derivative	EINECS: 203-961-6	1,00% - <5,00%	01-2119475104-44	
Alkanol	EINECS: 248-469-2	0,25% - <1,00%	01-2119488528-21	
Pyrrithione, sodium salt	EINECS: 223-296-5	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.

(\*) Neutralisation product: Equilibrium of Ionic Pairs in aqueous solution according to REACH Annex V, 4.

### Classification

Chemical name	Identifier	Classification
Sodium sulfonate	EINECS: 271-781-5	CLP: Eye Irrit. 2;H319
acid, ionic equilibrium with organic bases	Neutralisation product (*)	CLP: Eye Irrit. 2;H319
Modified alkanolamide	Polymer	CLP: Eye Dam. 1;H318
Fatty alcohol, ethoxylated	EC: 500-236-9	CLP: Skin Irrit. 2;H315, Aquatic Chronic 2;H411
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	CLP: Acute Tox. 4;H302, Acute Tox. 3;H311, Acute Tox. 3;H331, Flam. Liq. 3;H226, Eye Irrit. 2;H319, Skin Irrit. 2;H315
Fatty alcohol, ethoxylated	Polymer	CLP: Skin Irrit. 2;H315, Aquatic Chronic 2;H411
Sodium sulfonate	EINECS: 271-781-5	CLP: Eye Irrit. 2;H319
Glycol derivative	EINECS: 203-961-6	CLP: Eye Irrit. 2;H319
Alkanol	EINECS: 248-469-2	CLP: Skin Irrit. 2;H315, Aquatic Acute 1;H400, Aquatic Chronic 1;H410
Pyrrithione, sodium salt	EINECS: 223-296-5	CLP: Acute Tox. 4;H302, Acute Tox. 4;H312, Acute Tox. 4;H332, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 100; M-Factor (aquatic chronic): 1

CLP: Regulation No. 1272/2008.

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Note L of Annex VI of Regulation EC 1272/2008."

## SECTION 4: First aid measures

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

### 4.1 Description of first aid measures

**Product name:** OPTA COOL 500 | 5-L-GEBINDE

<b>Inhalation:</b>	Supply fresh air; consult doctor in case of symptoms.
<b>Eye contact:</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
<b>Skin Contact:</b>	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.
<b>Ingestion:</b>	Rinse mouth. Call a POISON CENTER or doctor/ physician if you feel unwell.
<b>4.2 Most important symptoms and effects, both acute and delayed:</b>	Causes serious eye irritation. Causes skin irritation.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	Hand over this safety data sheet to the physician with the special comment "watermiscible cutting oil". Get medical attention if symptoms occur.

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

**Product name:** OPTA COOL 500 | 5-L-GEBINDE

**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.

### 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

**Storage Class:** 10-13, combustible / non-combustible liquids and solids

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control Parameters

##### Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
tert. alkanolamine - Inhalable fraction.	MAK	5 mg/m <sup>3</sup>	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as amended (2011)
Glycol derivative	STEL	15 ppm 101,2 mg/m <sup>3</sup>	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009)
Glycol derivative	TWA	10 ppm 67,5 mg/m <sup>3</sup>	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009)
Glycol derivative - Vapor and aerosol.	AGW	10 ppm 67 mg/m <sup>3</sup>	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (04 2014)
Fatty alcohol	AGW	20 ppm 200 mg/m <sup>3</sup>	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (01 2012)
Alkanol - Vapor and aerosol.	AGW	20 ppm 164 mg/m <sup>3</sup>	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (09 2013)
Pyrithione, sodium salt - Inhalable fraction.	AGW	1 mg/m <sup>3</sup>	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (09 2012)

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## 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:** Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield.

#### 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:** Not known.

**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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Green
<b>Odor:</b>	Characteristic

**Product name:** OPTA COOL 500 | 5-L-GEBINDE

<b>pH:</b>	9,5 (50 g/l, 20 °C, DIN 51369)
<b>Freezing point:</b>	not determined
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	Value not relevant for classification
<b>Evaporation Rate:</b>	Not applicable for mixtures
<b>Flammability (solid, gas):</b>	not determined
<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
<b>Relative vapor density:</b>	Not applicable for mixtures
<b>Density:</b>	0,92 g/cm <sup>3</sup> (15 °C) (DIN EN ISO 12185)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Emulsifiable in water
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable for mixtures
<b>Autoignition Temperature:</b>	not determined
<b>Decomposition Temperature:</b>	not determined
<b>Flow time</b>	Value not relevant for classification
<b>Explosive properties:</b>	Value not relevant for classification
<b>Oxidizing properties:</b>	Value not relevant for classification
<b>Particle characteristics:</b>	Not applicable
<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.

## SECTION 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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## 11.1 Information on toxicological effects

### Acute toxicity

#### Oral

<b>Product:</b>	ATEmix: 47.311 mg/kg
<b>Specified substance(s)</b> acid, ionic equilibrium with organic bases	LD 50 (Rat): 6.176 mg/kg
tert. alkanolamine, ionic equilibrium with acids	LD 50 (Rat): 1.320 mg/kg
Sodium sulfonate	LD 50 (Rat): > 5.000 mg/kg
Glycol derivative	LD 50 (Rat): 3.384 mg/kg
Pyrithione, sodium salt	LD 50 (Rat): 1.208 mg/kg

#### Dermal

<b>Product:</b>	ATEmix: 30.645 mg/kg
<b>Specified substance(s)</b> tert. alkanolamine, ionic equilibrium with acids	LD 50 (Guinea Pig): 855 mg/kg
Sodium sulfonate	LD 50 (Rabbit): > 5.001 mg/kg
Glycol derivative	LD 50 (Rabbit): 2.700 mg/kg
Pyrithione, sodium salt	LD 50 (Rabbit, Female, Male): 1.800 mg/kg

#### Inhalation

<b>Product:</b>	ATEmix: 107,53 mg/l Vapour Vapour
<b>Specified substance(s)</b> Pyrithione, sodium salt	LC 50 (Rat, 4 h): 1,08 mg/l Dusts, mists and fumes

#### Skin Corrosion/Irritation:

<b>Product:</b>	Based on available data, the classification criteria are not met.
<b>Specified substance(s)</b> Fatty alcohol, ethoxylated	OECD 404 (Rabbit, 4 h): Moderate skin irritation
Pyrithione, sodium salt	OECD 404 (Rabbit, 4 h): Irritating.

#### Serious Eye Damage/Eye Irritation:

<b>Product:</b>	Based on available data, the classification criteria are met.
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**Respiratory or Skin Sensitization:**

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

**Specified substance(s)**  
Pyrithione, sodium salt

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.

**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.

**Other adverse effects:** No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**

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

**Fish**

**Specified substance(s)**

acid, ionic equilibrium with organic bases LC 50 (Fish, 96 h): 15 mg/l

Fatty alcohol, ethoxylated LC 50 (Fish, 96 h): 108 mg/l (OECD 203)

tert. alkanolamine, ionic equilibrium with acids LC 50 (Fish, 96 h): 147 mg/l

Glycol derivative LC 50 (Fish, 96 h): 1.300 mg/l

Alkanol LC 50 (Fish, 96 h): > 1 - 10 mg/l

Pyrithione, sodium salt LC 50 (Fish, 96 h): 0,0066 mg/l

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**Aquatic Invertebrates**

**Specified substance(s)**

acid, ionic equilibrium with organic bases	EC 50 (Water Flea, 48 h): 22,5 mg/l
Fatty alcohol, ethoxylated	LC 50 (Water Flea, 48 h): 51 mg/l (OECD 202)
tert. alkanolamine, ionic equilibrium with acids	EC 50 (Water Flea, 48 h): 165 mg/l
Glycol derivative	EC 50 (Water Flea, 48 h): > 101 mg/l
Alkanol	EC 50 (Water Flea, 48 h): > 0,1 - 1 mg/l
Pyrrithione, sodium salt	EC 50 (Water Flea, 48 h): 0,022 mg/l

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

**Fish**

**Specified substance(s)**

Fatty alcohol, ethoxylated	NOEC (Fish, 30 d): 0,28 mg/l
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**Aquatic Invertebrates**

**Specified substance(s)**

Fatty alcohol, ethoxylated	NOEC (Water Flea, 21 d): 0,0724 mg/l
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**Toxicity to Aquatic Plants**

**Specified substance(s)**

acid, ionic equilibrium with organic bases	EC 50 (Alga, 72 h): 62,9 mg/l
Fatty alcohol, ethoxylated	EC 50 (Alga, 72 h): > 100 mg/l
tert. alkanolamine, ionic equilibrium with acids	EC 50 (Alga, 72 h): 44 mg/l
Glycol derivative	EC 50 (Alga, 96 h): > 101 mg/l
Alkanol	EC 50 (Alga, 72 h): > 1 - 10 mg/l

**12.2 Persistence and Degradability**

**Biodegradation**

<b>Product:</b>	Not applicable for mixtures
<b>Specified substance(s)</b>	
Fatty alcohol, ethoxylated	Readily biodegradable
Pyrrithione, sodium salt	(OECD 301B) Readily biodegradable

**12.3 Bioaccumulative potential**

<b>Product:</b>	Not applicable for mixtures
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**12.4 Mobility in soil:**

**Product:** Not applicable for mixtures

**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:**

No data available.

**Water Hazard Class (WGK):**

WGK 2: significantly water-endangering.

**SECTION 13: Disposal considerations**

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**13.1 Waste treatment methods**

**General information:**

Dispose in accordance with all applicable regulations.

**Disposal methods:**

Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.

**European Waste Codes**

**Unused product:**

12 01 09\*: machining emulsions and solutions free of halogens

**SECTION 14: Transport information**

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**ADR/RID**

- 14.1 UN Number: —
- 14.2 UN Proper Shipping Name: —
- 14.3 Transport Hazard Class(es)
  - Class: Non-dangerous goods
  - Label(s): —
  - Hazard No. (ADR): —
  - Tunnel restriction code: —
- 14.4 Packing Group: —
- 14.5 Environmental hazards: —
- 14.6 Special precautions for user: —

**IMDG**

- 14.1 UN Number: —
- 14.2 UN Proper Shipping Name: —
- 14.3 Transport Hazard Class(es)
  - Class: Non-dangerous goods
  - Label(s): —
  - EmS No.: —
- 14.3 Packing Group: —
- 14.5 Environmental hazards: —
- 14.6 Special precautions for user: —

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**IATA**

- 14.1 UN Number: –
- 14.2 Proper Shipping Name: –
- 14.3 Transport Hazard Class(es):  
Class: Non-dangerous goods  
Label(s): –
- 14.4 Packing Group: –
- 14.5 Environmental hazards: –
- 14.6 Special precautions for user: –

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Not applicable.

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**EU Regulations**

**EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances:** none

**EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended:** none

**National Regulations**

**Water Hazard Class (WGK):** WGK 2: significantly water-endangering.

**15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

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

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

- H226 Flammable liquid and vapor.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- 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.

**Other information:** The classification complies with the current EU lists; however, it has been supplemented with expert literature information and information provided by/about our company. The following evaluation methods were used: - On the

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basis of test data - Calculation Method - Bridging Principle "Substantially similar mixtures" - Expert Judgement

**Revision Date:**

15.11.2021

**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.