

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## ICP-Standard Kupfer 1,000 g Cu/l

Revision date: 10.04.2024 Product code: 32266 Page 1 of 12

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

### 1.1. Product identifier

ICP-Standard Kupfer 1,000 g Cu/l

UFI: 56CV-52JV-Y00X-E1RV

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

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

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

Company name: AnalytiChem GmbH

ACD

Street: Stempelstraße 6
Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

E-mail: info@analytichem.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de
Responsible Department: Abteilung Produktsicherheit

1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

number: Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

#### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

#### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

# Regulation (EC) No 1272/2008

### Hazard components for labelling

nitric acid

Signal word: Danger

Pictograms:





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#### **Hazard statements**

H290 May be corrosive to metals.
H315 Causes skin irritation.
H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

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

protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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

present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Absorb spillage to prevent material damage.

# P390 **2.3. Other hazards**

P310

No data available

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

#### 3.2. Mixtures

### **Chemical characterization**

Mixtures in aqueous solution

#### Relevant ingredients

| CAS No     | Chemical name  |   |                  |  |  |  |
|------------|--|---|------------------|--|--|--|
|            | EC No  | Index No  | REACH No         |  |  |  |
|            | Classification (Regulation (EC) No   | 1272/2008)  |                  |  |  |  |
| 7697-37-2  | nitric acid  |   |                  |  |  |  |
|            | 231-714-2  | 007-030-00-3  | 01-2119487297-23 |  |  |  |
|            | Ox. Liq. 3, Met. Corr. 1, Acute Tox.   | Ox. Liq. 3, Met. Corr. 1, Acute Tox. 3, Skin Corr. 1A; H272 H290 H331 H314 EUH071 |                  |  |  |  |
| 10031-43-3 | Copper(II) nitrate trihydrate  |   |                  |  |  |  |
|            |  |   | 01-2119969290-34 |  |  |  |
|            | Ox. Sol. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1; H272 H302 H315 H319 H400 H410 |   |                  |  |  |  |

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

# Specific Conc. Limits, M-factors and ATE

| opecine cone. Ellints, in-lactors and ATE |                  |   |           |  |  |  |
|---|------------------|---|-----------|--|--|--|
| CAS No                                    | EC No            | Chemical name   | Quantity  |  |  |  |
|   | Specific Conc. L | Limits, M-factors and ATE   |           |  |  |  |
| 7697-37-2                                 | 231-714-2        | nitric acid   | 1 - < 5 % |  |  |  |
|   |                  | inhalation: ATE 2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20 - 100 Skin Corr. 1B; H314: >= 5 - < 20 |           |  |  |  |
| 10031-43-3                                |                  | Copper(II) nitrate trihydrate   | < 1 %     |  |  |  |
|   | oral: ATE = 500  | O mg/kg   |           |  |  |  |

### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### After inhalation

Provide fresh air.



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#### After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect uninjured eye.

### After ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk.

Call a physician immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

Irritant

### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

# Unsuitable extinguishing media

no restriction

# 5.2. Special hazards arising from the substance or mixture

Non-combustible liquids

Hazardous combustion products

In case of fire may be liberated:

Nitrogen oxides (NOx)

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

In case of fire and/or explosion do not breathe fumes.

Avoid contact with skin, eyes and clothes.

### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

# General advice

Corrosive to metals.

# For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

**Emergency procedures** 

Do not breathe dust/fume/gas/mist/vapours/spray.



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#### For emergency responders

Precautionary statements For emergency responders: Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment

Cover drains.

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

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Use personal protection equipment.

Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Do not breathe vapour/aerosol.

# Advice on protection against fire and explosion

Usual measures for fire prevention.

# Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

### Further information on handling

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

Take off immediately all contaminated clothing and wash it before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Corrosive to metals.

Unsuitable container/equipment material: Metal

The product develops hydrogen in an aqueous solution in contact with metals.

### Further information on storage conditions

Keep container tightly closed.

#### 7.3. Specific end use(s)

Laboratory chemicals

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



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#### 8.1. Control parameters

#### Occupational exposure limits

| CAS No    | Substance   | ppm | mg/m³ | fib/cm³ | Category      | Origin |
|-----------|-------------|-----|-------|---------|---------------|--------|
| 7697-37-2 | Nitric acid | 1   | 2.6   |         | STEL (15 min) |        |

#### **PNEC** values

| CAS No   | Substance                       |             |  |  |
|--|---------------------------------|-------------|--|--|
| Environmenta                                     | Environmental compartment Value |             |  |  |
| 10031-43-3                                       | Copper(II) nitrate trihydrate   |             |  |  |
| Freshwater                                       | Freshwater                      |             |  |  |
| Marine water                                     |                                 | 0,0052 mg/l |  |  |
| Freshwater sediment                              |                                 | 87 mg/kg    |  |  |
| Marine sediment                                  |                                 | 676 mg/kg   |  |  |
| Micro-organisms in sewage treatment plants (STP) |                                 | 0,23 mg/l   |  |  |
| Soil 6   |                                 | 65 mg/kg    |  |  |

#### 8.2. Exposure controls

### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

### Eye/face protection

goggles

Wear eye/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 741 Dermatril® L
Recommended material: NBR (Nitrile rubber) 0,11 mm
Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 741 Dermatril® L
Recommended material: NBR (Nitrile rubber) 0,11 mm
Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves



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(e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

# **Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

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

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: colourless
Odour: odourless

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

No data available

boiling range:

Flammability: No data available Lower explosion limits: No data available Upper explosion limits: No data available Flash point: No data available Auto-ignition temperature: No data available No data available Decomposition temperature: pH-Value: <1 No data available Viscosity / kinematic:

Solubility in other solvents

No data available

Partition coefficient n-octanol/water:

Vapour pressure:

Vapour pressure:

No data available

Vapour pressure:

No data available

Density:

No data available

Bulk density:

No data available

Relative vapour density:

No data available

### 9.2. Other information

Water solubility:

### Information with regard to physical hazard classes

Explosive properties

No data available

Sustaining combustion:

No data available

Self-ignition temperature

Solid: No data available
Gas: No data available

Oxidizing properties
Oxidizina

Other safety characteristics

Evaporation rate:

Solvent separation test:

Solvent content:

Solid content:

No data available

No data available

0

0

completely miscible



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Sublimation point:No data availableSoftening point:No data availablePour point:No data available

No data available:

Viscosity / dynamic:

No data available

No data available

Further Information
Corrosive to metals.

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Corrosive to metals.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Alkali (lye)

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Meta

The product develops hydrogen in an aqueous solution in contact with metals.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: SECTION 5: Firefighting measures

### **Further information**

No data available

# **SECTION 11: Toxicological information**

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

### **Acute toxicity**

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

### **ATEmix** calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No     | Chemical name                 |                  |         |        |        |  |  |  |  |
|------------|-------------------------------|------------------|---------|--------|--------|--|--|--|--|
|            | Exposure route                | Dose             | Species | Source | Method |  |  |  |  |
| 7697-37-2  | nitric acid                   | nitric acid      |         |        |        |  |  |  |  |
|            | inhalation vapour             | ATE 2,65 mg/l    |         |        |        |  |  |  |  |
| 10031-43-3 | Copper(II) nitrate trihydrate |                  |         |        |        |  |  |  |  |
|            | oral                          | ATE 500<br>mg/kg |         |        |        |  |  |  |  |

### Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

#### Sensitising effects

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



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### Carcinogenic/mutagenic/toxic effects for reproduction

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.

#### Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

### Additional information on tests

There are no data available on the preparation/mixture itself.

#### **Practical experience**

There are no data available on the preparation/mixture itself.

### 11.2. Information on other hazards

#### Other information

There are no data available on the preparation/mixture itself.

#### **Further information**

There are no data available on the preparation/mixture itself.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Harmful to aquatic life with long lasting effects.



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| CAS No     | Chemical name                 |                  |          |           |  |  |  |
|------------|-------------------------------|------------------|----------|-----------|--|--|--|
|            | Aquatic toxicity              | Dose             |          | [h]   [d] | Species  | Source   | Method   |
| 7697-37-2  | nitric acid                   |                  |          |           |  |  |  |
|            | Acute fish toxicity           | LC50<br>mg/l     | 1559     | 96 h      | Topeka shiner  | Environmental<br>Toxicology and<br>Chemistry,  | other: ASTM<br>E729-26                         |
|            | Fish toxicity                 | NOEC             | 268 mg/l | 30 d      | juvenile Topeka shiner<br>and with juvenile<br>Fathead m | Study report<br>(2009)                         | Growth tests estimated the test chemical       |
|            | Algae toxicity                | NOEC<br>mg/l     | > 419    | 10 d      | several benthic<br>diatoms; see results                  | Marine Biology<br>43:307-315 (1977)            | Ten cultures of benthic diatoms were iso       |
|            | Acute bacteria toxicity       | EC50<br>mg/l ( ) | > 1000   | 3 h       | Activated sludge   | Study report<br>(2008)                         | OECD Guideline<br>209                          |
| 10031-43-3 | Copper(II) nitrate trihydrate |                  |          |           |  |  |  |
|            | Acute fish toxicity           | LC50<br>mg/l     | 0,193    | 96 h      | Pimephales promelas                                      | Study report<br>(1996)                         | measurements<br>were conducted<br>by standard  |
|            | Acute algae toxicity          | ErC50<br>mg/l    | 0,152    | 72 h      | Pseudokirchneriella<br>subcapitata                       | Publication (2005)                             | OECD Guideline<br>201                          |
|            | Acute crustacea toxicity      | EC50<br>mg/l     | 0,007    | 48 h      | Daphnia magna  | Study report<br>(1978)                         | - Test were<br>conducted on<br>Daphnia magna t |
|            | Fish toxicity                 | NOEC<br>mg/l     | 0,123    | 12 d      | Atherinops affinis                                       | Mar. Environ. Res.<br>31: 17-35 (1991)         | Three tests are reported, designed to de       |
|            | Algae toxicity                | NOEC<br>mg/l     | 0,0102   | 19 d      | other aquatic plant:<br>giant kelp Macrocystis<br>pyrife | Mar. Ecol. Prog.<br>Ser. 68: 147 - 156<br>(199 | Tests were conducted to determine the ef       |
|            | Crustacea toxicity            | NOEC<br>mg/l     | 0,033    | 14 d      | Penaeus mergulensis<br>and Penaeus<br>monodon            | Bull. Environ.<br>Contain. Toxicol.<br>(1995)  | The effects of dissolved copper on the g       |

# 12.2. Persistence and degradability

There are no data available on the mixture itself.

# 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

#### **BCF**

| CAS No     | Chemical name                 | BCF       | Species         | Source               |
|------------|-------------------------------|-----------|-----------------|----------------------|
| 10031-43-3 | Copper(II) nitrate trihydrate | 0,02 - 20 | Crangon crangon | Symp. Biologica. Hun |

#### 12.4. Mobility in soil

There are no data available on the mixture itself.

# 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.

### **Further information**

Do not allow to enter into surface water or drains.

Discharge into the environment must be avoided.

# **SECTION 13: Disposal considerations**



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#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations.

### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

# **SECTION 14: Transport information**

14.1. UN number or ID number: UN 3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid)

14.3. Transport hazard class(es): Ш 14.4. Packing group: Hazard label: 8 Classification code: C1 Special Provisions: 274 Limited quantity: 5 L Excepted quantity: E1 Transport category: Hazard No: 80 Tunnel restriction code: Ε

#### Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Classification code:C1Special Provisions:274Limited quantity:5 LExcepted quantity:E1

#### Marine transport (IMDG)

14.1. UN number or ID number: UN 3264

**14.2. UN proper shipping name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Special Provisions:223, 274Limited quantity:5 LExcepted quantity:E1EmS:F-A. S-B

# Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Special Provisions:A3 A803Limited quantity Passenger:1 L



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Passenger LQ: Y841 Excepted quantity: E1

IATA-packing instructions - Passenger:852IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:856IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

#### **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): 1 - slightly hazardous to water

# **SECTION 16: Other information**

### Abbreviations and acronyms

Ox. Liq: Oxidising liquid Ox. Sol: Oxidising solid

Met. Corr: Substance or mixture corrosive to metals

Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation

Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard

### 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    |
| Skin Irrit. 2; H315     | Calculation method       |
| Eye Dam. 1; H318        | Calculation method       |
| Aquatic Chronic 3; H412 | Calculation method       |

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

| H272 | May intensify fire; oxidiser. |
|------|-------------------------------|
| H290 | May be corrosive to metals.   |
| H302 | Harmful if swallowed.         |

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation. H318 Causes serious eye damage.



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H319 Causes serious eye irritation.

H331 Toxic 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**

Provide appropriate information, instructions and training to users

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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