# Safety Data Sheet

according to UK REACH Regulation

**UV-Plus Purifier**



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

### 1.1. Product identifier

UV-Plus Purifier

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

**Use of the substance/mixture**

Professional use.
The UV Plus Purifier is a gas cleaning system for exclusive use in OES SPECTRO products.

**Uses advised against**

Any non-intended use.

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

| | |
|---|---|
| Company name: | SPECTRO Analytical Instruments GmbH |
| Street: | Boschstr. 10 |
| Place: | D-47533 Kleve |
| Telephone: | +49 2821892-0 |
| Responsible Department: | spectro.info@ametek.com |

### 1.4. Emergency telephone number:

International: +44 1865407333 Spectro 29003-NEC
North America: 011441865407333

**Further Information**

Safety Data Sheet according to UK-REACH Regulation

The product is classified as an article. Providing the Safety Data Sheet takes place on a voluntary basis for information purposes.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GB CLP Regulation**

Self-heat. 1; H251
Aquatic Acute 1; H400
Aquatic Chronic 1; H410

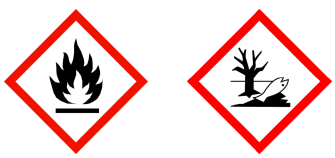
Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

**GB CLP Regulation**

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

| | |
|---|---|
| H251 | Self-heating: may catch fire. |
| H410 | Very toxic to aquatic life with long lasting effects. |

**Precautionary statements**

| | |
|---|---|
| P235 | Keep cool. |
| P273 | Avoid release to the environment. |
| P391 | Collect spillage. |
| P407 | Maintain air gap between stacks or pallets. |
| P420 | Store separately. |

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional advice on labelling**

Not required because hazardous substances are incorporated in the material/article and there is no risk in case of skin contact, inhalation or ingestion as long as the material is properly handled and stored. (EC 1272/2008 I 1.3.4.1)

There is no requirement for the product to be specially labelled according to EC directives or the corresponding national laws.

**2.3. Other hazards**

This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use. Under normal conditions, the product is hermetically sealed.

The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to UK REACH.
This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria. This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**Chemical characterization**

Catalyst.
The UV Plus Purifier is a gas cleaning system for exclusive use in OES SPECTRO products. Dispose of only deactivated catalyst residues.

**Hazardous components**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| - | activated Copper Oxide | | | < 50 % |
| | - | | | |
| | Self-heat. 1; H251 | | | |
| 1317-38-0 | copper(II) oxide | | | < 50 % |
| | 215-269-1 | 029-016-00-6 | 01-2119502447-44 | |
| | Aquatic Acute 1, Aquatic Chronic 1; H400 H410 | | | |
| 14808-60-7 | Quartz | | | < 5 % |
| | 238-878-4 | | | |
| | | | | |
| 1304-28-5 | Bariumoxide | | | < 3 % |
| | Acute Tox. 4, Acute Tox. 4; H332 H302 | | | |
| 1314-13-2 | zinc oxide | | | < 1 % |
| | 215-222-5 | 030-013-00-7 | | |
| | Aquatic Acute 1, Aquatic Chronic 1; H400 H410 | | | |

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

**Specific Conc. Limits, M-factors and ATE**

| CAS No | EC No | Chemical name | Quantity |
|---|---|---|---|
| | Specific Conc. Limits, M-factors and ATE | | |
| 1317-38-0 | 215-269-1 | copper(II) oxide | < 50 % |
| | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2500 mg/kg Aquatic Acute 1; H400: M=100<br>Aquatic Chronic 1; H410: M=10 | | |

| | | | |
|---|---|---|---|
| 1304-28-5 | | Bariumoxide | < 3 % |
| | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: ATE = 500 mg/kg | | |
| 1314-13-2 | 215-222-5 | zinc oxide | < 1 % |
| | oral: LD50 = > 5000 mg/kg | | |

**Further Information**

Product does not contain listed SVHC substances > 0.1 % according to UK REACH.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with skin**

In the event of a damaged container. If material escapes:
After contact with skin, wash immediately with: Water. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with eyes**

In the event of a damaged container. If material escapes:
Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

In the event of a damaged container. If material escapes:
Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media**

The product itself does not burn.
In the event of a damaged container. If material escapes:
D powder. Dry sand.

**Unsuitable extinguishing media**

Water.

### 5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Gas/vapours, harmful.

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Co-ordinate fire-fighting measures to the fire surroundings.
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**

Warning: May cause fire.
In case of fire, use fire extinguisher class D.

**For non-emergency personnel**

Wear personal protection equipment (refer to section 8).

**For emergency responders**

No special measures are necessary.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Eliminate leaks immediately. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil. If required, notify relevant authorities according to all applicable regulations.

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

**For containment**

Dispose of only deactivated catalyst residues.
Take up carefully when dry. Avoid contact with water.
Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

Clean contaminated objects and areas thoroughly observing environmental regulations.

### 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**

Protect containers against damage.
Under normal conditions, the product is hermetically sealed.

**Advice on protection against fire and explosion**

Protect containers against damage.
Under normal conditions, the product is hermetically sealed.
Usual measures for fire prevention.

**Advice on general occupational hygiene**

No special measures are necessary.

**Further information on handling**

General protection and hygiene measures: See section 8.

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

**Requirements for storage rooms and vessels**

not relevant
Under normal conditions, the product is hermetically sealed.

**Hints on joint storage**

not relevant
Under normal conditions, the product is hermetically sealed.

**Further information on storage conditions**

not relevant
Under normal conditions, the product is hermetically sealed.

### 7.3. Specific end use(s)

See section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure limits (EH40)**

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|---|---|---|---|---|---|---|
| - | Silica, respirable crystalline (respirable fraction) | - | 0.1 | | TWA (8 h) | WEL |

**PNEC values**

| CAS No | Substance |
|---|---|
| Environmental compartment | Value |
| 1317-38-0 | copper(II) oxide |
| Freshwater | 0,0078 mg/l |
| 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 | 65 mg/kg |

**Additional advice on limit values**

Under normal conditions, the product is hermetically sealed.

### 8.2. Exposure controls

**Appropriate engineering controls**

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

Provide adequate ventilation.

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

**Eye/face protection**

Eye protection: not required.

Under normal conditions, the product is hermetically sealed.

**Hand protection**

Hand protection: not required.

Under normal conditions, the product is hermetically sealed.

**Skin protection**

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Environmental exposure controls**

No special precautionary measures are necessary.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| Physical state: | solid |
| Colour: | not determined |
| Odour: | characteristic |
| Odour threshold: | not determined |

**Changes in the physical state**

| | |
|---|---|
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | not applicable |
| Sublimation point: | not determined |
| Softening point: | not determined |
| Pour point: | not determined |
| Flash point: | not applicable |

**Flammability**

| | |
|---|---|
| Solid/liquid: | not determined |

**Explosive properties**

not applicable

| | |
|---|---|
| Lower explosion limits: | not applicable |
| Upper explosion limits: | not applicable |
| Auto-ignition temperature: | not applicable |

**Self-ignition temperature**

| | |
|---|---|
| Solid: | not determined |
| Gas: | not determined |
| Decomposition temperature: | not determined |
| pH-Value: | not applicable |
| Viscosity / dynamic: | not applicable |
| Viscosity / kinematic: | not determined |
| Flow time: | not determined |
| Water solubility: | not applicable |

**Solubility in other solvents**

not determined

| | |
|---|---|
| Dissolution rate: | not relevant |
| Partition coefficient n-octanol/water: | SECTION 12: Ecological information |
| Dispersion stability: | not relevant |
| Vapour pressure: | not applicable |
| Density: | not determined |
| Bulk density: | not determined |
| Relative vapour density: | not determined |
| Particle characteristics: | not relevant |

### 9.2. Other information

**Information with regard to physical hazard classes**

| | |
|---|---|
| Sustaining combustion: | No data available |

Oxidizing properties

In the event of a damaged container. If material escapes: Self-heating substances and mixtures May cause fire.

**Other safety characteristics**

| | |
|---|---|
| Solvent separation test: | not determined |
| Solvent content: | 0% |
| Solid content: | not applicable |
| Evaporation rate: | not determined |

**Further Information**

No information available.

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

Protect against: UV-radiation/sunlight. heat.

**10.5. Incompatible materials**

Substances and mixtures which, in contact with water, emit flammable gases. Combustible substance. Oxidizing agents. Emission of air/oxygen.

**10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

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

**Toxicocinetics, metabolism and distribution**

No data available.

**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 |
| 1317-38-0 | copper(II) oxide | | | | |
| | oral | LD50 > 2500 mg/kg | Rat | REACH Dossier | OECD Guideline 423 |
| | dermal | LD50 > 2000 mg/kg | Rat | REACH Dossier | OECD Guideline 402 |
| 1304-28-5 | Bariumoxide | | | | |
| | oral | ATE 500 mg/kg | | | |
| | inhalation vapour | ATE 11 mg/l | | | |

| | | | | | |
|---|---|---|---|---|---|
| | inhalation dust/mist | ATE 1,5 mg/l | | | |
| 1314-13-2 | zinc oxide | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | IUCLID | |

**Irritation and corrosivity**

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

**Sensitising effects**

Based on available data, the classification criteria are not met.
copper(II) oxide: no danger of sensitization. literature infomation: ECHA Dossier

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.
copper(II) oxide: Ames test negative. Literature information: ECHA dossier

**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.

**Information on likely routes of exposure**

Under normal conditions, the product is hermetically sealed.
In the event of a damaged container. If material escapes: Ingestion: May be harmful. Inhalation: May be harmful. Skin contact: May cause mild irritation. Eye contact: May cause irritation. May cause fire.

**Specific effects in experiment on an animal**

No data available.

### 11.2. Information on other hazards

**Endocrine disrupting properties**

This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Other information**

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

| CAS No | Chemical name | | | | | |
|---|---|---|---|---|---|---|
| | Aquatic toxicity | Dose | [h] \| [d] | Species | Source | Method |
| 1317-38-0 | copper(II) oxide | | | | | |
| | Acute fish toxicity | LC50 [0,0105-9,15] mg/l | 96 h | Fish | REACH Dossier | |
| | Acute algae toxicity | ErC50 [0,0165-0,897] mg/l | 72 h | algae | REACH Dossier | |
| | Acute crustacea toxicity | EC50 [0,0085-1,21] mg/l | 48 h | Crustacea | REACH Dossier | |
| | Fish toxicity | NOEC [0,0022-0,188] mg/l | | Fish [7-330d] | REACH Dossier | |
| | Algae toxicity | NOEC [0,0102] mg/l | 19 d | Macrocystis pyrife | Mar. Ecol. Prog. Ser. 68: 147 - 156 (199 | |
| | Crustacea toxicity | NOEC [0,004-0,181] mg/l | | Crustacea [2-240d] | REACH Dossier | |

**12.2. Persistence and degradability**

The methods for determining the biological degradability are not applicable to inorganic substances.

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**BCF**

| CAS No | Chemical name | BCF | Species | Source |
|---|---|---|---|---|
| 1317-38-0 | copper(II) oxide | 0,02 - 20 | Crangon crangon | |

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.
The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

**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.
The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

**12.7. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Disposal recommendations**

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.
Must not be disposed with household waste.
Refer to manufacturer/supplier for information on recovery/recycling.
Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

**List of Wastes Code - residues/unused products**

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

**List of Wastes Code - used product**

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

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

## SECTION 14: Transport information

**Land transport (ADR/RID)**

**14.1. UN number or ID number:** UN 3190

| | |
|---|---|
| **14.2. UN proper shipping name:** | SELF-HEATING SOLID, INORGANIC, N.O.S. (activated Copper Oxide) |
| **14.3. Transport hazard class(es):** | 4.2 |
| **14.4. Packing group:** | II |
| Hazard label: | 4.2 |


| | |
|---|---|
| Classification code: | S4 |
| Special Provisions: | 274 |
| Limited quantity: | 0 |
| Excepted quantity: | E2 |
| Transport category: | 2 |
| Hazard No: | 40 |
| Tunnel restriction code: | D/E |

**Inland waterways transport (ADN)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 3190 |
| **14.2. UN proper shipping name:** | SELF-HEATING SOLID, INORGANIC, N.O.S. (activated Copper Oxide) |
| **14.3. Transport hazard class(es):** | 4.2 |
| **14.4. Packing group:** | II |
| Hazard label: | 4.2 |


| | |
|---|---|
| Classification code: | S4 |
| Special Provisions: | 274 |
| Limited quantity: | 0 |
| Excepted quantity: | E2 |

**Marine transport (IMDG)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 3190 |
| **14.2. UN proper shipping name:** | SELF-HEATING SOLID, INORGANIC, N.O.S. (Activated copper oxide) |
| **14.3. Transport hazard class(es):** | 4.2 |
| **14.4. Packing group:** | II |
| Hazard label: | 4.2 |


| | |
|---|---|
| Marine pollutant: | YES |
| Special Provisions: | 274 |
| Limited quantity: | 0 |
| Excepted quantity: | E2 |
| EmS: | F-A, S-J |

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

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 3190 |
| **14.2. UN proper shipping name:** | SELF-HEATING SOLID, INORGANIC, N.O.S. (Activated copper oxide) |
| **14.3. Transport hazard class(es):** | 4.2 |
| **14.4. Packing group:** | II |
| Hazard label: | 4.2 |


| | |
|---|---|
| Special Provisions: | A3 A803 |

| | | |
|---|---|---|
| Limited quantity Passenger: | Forbidden | |
| Passenger LQ: | Forbidden | |
| Excepted quantity: | E2 | |
| IATA-packing instructions - Passenger: | | 467 |
| IATA-max. quantity - Passenger: | | 15 kg |
| IATA-packing instructions - Cargo: | | 470 |
| IATA-max. quantity - Cargo: | | 50 kg |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: copper(II) oxide

**14.6. Special precautions for user**

Safe handling: see section 7

Personal protection equipment: see section 8

**14.7. Maritime transport in bulk according to IMO instruments**

not relevant

## 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

| | |
|---|---|
| 2010/75/EU (VOC): | 0% |
| 2004/42/EC (VOC): | 0 g/L |
| Information according to 2012/18/EU (SEVESO III): | E1 Hazardous to the Aquatic Environment |

**Additional information**

Safety Data Sheet according to UK-REACH Regulation

The mixture is classified as hazardous according to GHS (GB CLP).

UK REACH Appendix XVII, No (mixture): -

**National regulatory information**

| | |
|---|---|
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). |
| Water hazard class (D): | 3 - highly hazardous to water |

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

copper(II) oxide

## SECTION 16: Other information

**Changes**

Rev. 1,0 Initial release 23,04.2014

Rev. 1,1 Changes in chapter: 2, 7, 9, 10, 14, 15,16

Rev. 2,0 15.05.2023, Changes in chapter: 1 - 16

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level
d: day(s)
EINECS: European INventory of Existing Commercial chemical Substances
ELINCS: European LIst of Notified Chemical Substances
ECHA: European Chemicals Agency
EWC: European Waste Catalogue
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
h: hour
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect concentration
NLP: No-Longer Polymers
N/A: not applicable
OECD: Organisation for Economic Co-operation and Development
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )
REACH: Registration, Evaluation, Authorisation of Chemicals
SVHC: substance of very high concern
TRGS: Technische Regeln für Gefahrstoffe
UN: United Nations
VOC: Volatile Organic Compounds

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

| Classification | Classification procedure |
|---|---|
| Self-heat. 1; H251 | On basis of test data |
| Aquatic Acute 1; H400 | Calculation method |
| Aquatic Chronic 1; H410 | Calculation method |

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

| | |
|---|---|
| H251 | Self-heating: may catch fire. |
| H302 | Harmful if swallowed. |
| H332 | Harmful if inhaled. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

**Further Information**

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