

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Reagent 130+R2301

Revision date: 12.07.2023

Product code: 130+R2301

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

### 1.1. Product identifier

Reagent 130+R2301

UFI: 3CQA-YRJJ-M30V-NDKM

### 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                 |                              |
| 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 number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, 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

Eye Dam. 1; H318

Skin Sens. 1; H317

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

dipotassium disulphite

bis(4-hydroxy-N-methylanilinium) sulphate

Signal word: Danger

Pictograms:



#### Hazard statements

H317

May cause an allergic skin reaction.

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H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
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.  
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.  
P362+P364 Take off contaminated clothing and wash it before reuse.

**2.3. Other hazards**

No data available

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

**3.2. Mixtures**

**Chemical characterization**

Mixtures in aqueous solution

**Hazardous components**

| CAS No     | Chemical name  | Quantity         |
|------------|--|------------------|
|            | EC No  | Index No         |
|            |  | REACH No         |
|            | Classification (Regulation (EC) No 1272/2008)  |                  |
| 16731-55-8 | dipotassium disulphite   | 5 - < 10 %       |
|            | 240-795-3  | 01-2119537422-45 |
|            | Eye Dam. 1, STOT SE 3; H318 H335 EUH031  |                  |
| 55-55-0    | bis(4-hydroxy-N-methylanilinium) sulphate  | 1 - < 5 %        |
|            | 200-237-1  | 650-031-00-4     |
|            | Acute Tox. 4, Skin Sens. 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H302 H317 H373<br>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               |            |
| 16731-55-8 | 240-795-3 | dipotassium disulphite                                 | 5 - < 10 % |
|            |           | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg |            |
| 55-55-0    | 200-237-1 | bis(4-hydroxy-N-methylanilinium) sulphate              | 1 - < 5 %  |
|            |           | dermal: LD50 = > 1000 mg/kg; oral: LD50 = 565 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**

**General information**

No data available

**After inhalation**

Provide fresh air.  
Call a doctor if you feel unwell.

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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.  
Call a physician immediately.

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

Irritant  
Allergic reactions

#### 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 (NO<sub>x</sub>)  
Sulphur oxides

### 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

#### 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.

#### For emergency responders

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

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#### **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**

Keep container tightly closed.

##### **Further information on storage conditions**

Keep in a cool place.

storage temperature  $\leq +8^{\circ}\text{C}$

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

Laboratory chemicals

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

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#### 8.1. Control parameters

##### DNEL/DMEL values

| CAS No                   | Substance              | Exposure route | Effect   | Value                 |
|--------------------------|------------------------|----------------|----------|-----------------------|
| 16731-55-8               | dipotassium disulphite |                |          |                       |
| Worker DNEL, long-term   |                        | inhalation     | systemic | 263 mg/m <sup>3</sup> |
| Consumer DNEL, long-term |                        | inhalation     | systemic | 78 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term |                        | oral           | systemic | 10 mg/kg bw/day       |

##### PNEC values

| CAS No   | Substance              | Value     |
|--|------------------------|-----------|
| 16731-55-8                                       | dipotassium disulphite |           |
| Environmental compartment                        |                        |           |
| Freshwater                                       |                        | 1,17 mg/l |
| Marine water                                     |                        | 0,12 mg/l |
| Micro-organisms in sewage treatment plants (STP) |                        | 88,1 mg/l |

#### 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

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

By long-term hand contact

Recommended glove articles: KCL 741 Dermatril® L

Recommended material: NBR (Nitrile rubber) 0,11 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Recommended glove articles: KCL 741 Dermatril® L

Recommended material: NBR (Nitrile rubber) 0,11mm

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

##### Skin protection

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

Wash hands before breaks and after work.

##### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

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**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:   | clear             |                         |
| Odour:  | characteristic    |                         |
| Odour threshold:  | No data available |                         |
| Melting point/freezing point:                             |                   | No data available       |
| Boiling point or initial boiling point and boiling range: |                   | No data available       |
| 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       |
| Decomposition temperature:                                |                   | No data available       |
| pH-Value:   |                   | No data available       |
| Viscosity / kinematic:                                    |                   | No data available       |
| Water solubility:   |                   | completely miscible     |
| Solubility in other solvents                              |                   | No data available       |
| Partition coefficient n-octanol/water:                    |                   | No data available       |
| Vapour pressure:  |                   | No data available       |
| Vapour pressure:  |                   | No data available       |
| Density:  |                   | 1,058 g/cm <sup>3</sup> |
| Bulk density:   |                   | No data available       |
| Relative vapour density:                                  |                   | No data available       |

**9.2. Other information**

**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      |                   |
| No data available         |                   |

**Other safety characteristics**

|                          |                   |
|--------------------------|-------------------|
| Evaporation rate:        | No data available |
| Solvent separation test: | No data available |
| Solvent content:         | No data available |
| Solid content:           | No data available |
| Sublimation point:       | No data available |
| Softening point:         | No data available |
| Pour point:              | No data available |
| No data available:       |                   |
| Viscosity / dynamic:     | No data available |
| Flow time:               | No data available |

**Further Information**

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No data available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No data available

**10.2. Chemical stability**

Keep in a cool place.

Protect against: Heat

**10.3. Possibility of hazardous reactions**

Acid

**10.4. Conditions to avoid**

Heat

**10.5. Incompatible materials**

No data available

**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**

**Toxicokinetics, metabolism and distribution**

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

**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                    |
| 16731-55-8 | dipotassium disulphite                    |                   |            |  |                           |
|            | oral                                      | LD50 > 2000 mg/kg | Rat        | Study report (1974)                      | OECD Guideline 401        |
|            | dermal                                    | LD50 > 2000 mg/kg | Rat        | Study report (2009)                      | OECD Guideline 402        |
| 55-55-0    | bis(4-hydroxy-N-methylanilinium) sulphate |                   |            |  |                           |
|            | oral                                      | LD50 565 mg/kg    | Mouse      | ChemIDplusA TOXNET Database, 2017 (2017) | other: As mentioned below |
|            | dermal                                    | LD50 > 1000 mg/kg | Guinea pig | ChemIDplusA TOXNET Database, 2017 (2017) | other: As mentioned below |

**Irritation and corrosivity**

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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#### **Sensitising effects**

May cause an allergic skin reaction. (bis(4-hydroxy-N-methylanilinium) sulphate)

#### **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                                   |
| 16731-55-8 | dipotassium disulphite                    |                         |           |   |   |  |
|            | Acute fish toxicity                       | LC50 > 215 - < 464 mg/l | 96 h      | Leuciscus idus                                      | Study report (1989)                       | other: German industrial standard test g |
|            | Acute algae toxicity                      | ErC50 43,8 mg/l         | 72 h      | Desmodesmus subspicatus                             | Study report (1989)                       | OECD Guideline 201                       |
|            | Acute crustacea toxicity                  | EC50 89 mg/l            | 48 h      | Daphnia magna                                       | Study report (1990)                       | other: 79/831/EEC, appendix V, part C    |
|            | Fish toxicity                             | NOEC >= 316 mg/l        | 34 d      | Danio rerio   | Study report (2010)                       | OECD Guideline 210                       |
|            | Crustacea toxicity                        | NOEC > 10 mg/l          | 21 d      | Daphnia magna                                       | Study report (1993)                       | OECD Guideline 211                       |
|            | Acute bacteria toxicity                   | (EC50 > 1000 mg/l)      | 3 h       | activated sludge of a predominantly domestic sewage | Study report (2010)                       | OECD Guideline 209                       |
| 55-55-0    | bis(4-hydroxy-N-methylanilinium) sulphate |                         |           |   |   |  |
|            | Acute fish toxicity                       | LC50 0,925 mg/l         | 96 h      | Oryzias latipes                                     | J-check (Japan Chemicals Collaborative K) | OECD Guideline 203                       |
|            | Acute algae toxicity                      | ErC50 0,506 mg/l        | 72 h      | Pseudokirchneriella subcapitata                     | REACH Registration Dossier                | other: Predicted data                    |
|            | Acute crustacea toxicity                  | EC50 0,724 mg/l         | 48 h      | Daphnia magna                                       | REACH Registration Dossier                | other: Predicted data                    |

**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.

**Partition coefficient n-octanol/water**

| CAS No  | Chemical name                             | Log Pow |
|---------|---|---------|
| 55-55-0 | bis(4-hydroxy-N-methylanilinium) sulphate | 0,79    |

**BCF**

| CAS No  | Chemical name                             | BCF   | Species | Source               |
|---------|---|-------|---------|----------------------|
| 55-55-0 | bis(4-hydroxy-N-methylanilinium) sulphate | 3,162 | Fish    | REACH Registration D |

**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.

**12.7. Other adverse effects**

Discharge into the environment must be avoided.

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#### Further information

Do not allow to enter into surface water or drains.

### SECTION 13: Disposal considerations

#### 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.

Do not empty into drains.

##### 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.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

|  |  |
|--|--|
| <u>14.1. UN number or ID number:</u>     | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u>    | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u>              | No dangerous good in sense of this transport regulation. |

#### Inland waterways transport (ADN)

|  |  |
|--|--|
| <u>14.1. UN number or ID number:</u>     | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u>    | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u>              | No dangerous good in sense of this transport regulation. |

#### Marine transport (IMDG)

|  |  |
|--|--|
| <u>14.1. UN number or ID number:</u>     | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u>    | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u>              | No dangerous good in sense of this transport regulation. |

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

|  |  |
|--|--|
| <u>14.1. UN number or ID number:</u>     | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u>    | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u>              | No dangerous good in sense of this transport regulation. |

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

### 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

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

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**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): 2 - obviously hazardous to water

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 12.

**Abbreviations and acronyms**

Acute Tox: Acute toxicity  
Eye Dam: Eye damage  
Skin Sens: Skin sensitisation  
STOT SE: Specific target organ toxicity - single exposure  
STOT RE: Specific target organ toxicity - repeated exposure  
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 |
|-------------------------|--------------------------|
| Eye Dam. 1; H318        | Calculation method       |
| Skin Sens. 1; H317      | Calculation method       |
| Aquatic Chronic 3; H412 | Calculation method       |

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

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
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.  
EUH031 Contact with acids liberates toxic gas.

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