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

### 1.1. Product identifier

Reagent 130+R0105

UFI: QUM4-GRTT-1303-1QWX

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

**Use of the substance/mixture**

Industrial uses: Uses of substances as such or in preparations at industrial sites
Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Laboratory chemicals
For use in analytical devices.

**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<br>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 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 2; H411

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

**Regulation (EC) No 1272/2008**

**Hazard components for labelling**

oxalic acid
bis(4-hydroxy-N-methylanilinium) sulphate
dipotassium disulphite

**Signal word:** Danger

**Pictograms:**

**Hazard statements**

| | |
|---|---|
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H411 | Toxic to aquatic life with long lasting effects. |

**Precautionary statements**

| | |
|---|---|
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER/doctor. |
| P391 | Collect spillage. |

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Chemical characterization**

Mixtures in aqueous solution

**Relevant ingredients**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 6487-48-5 | di-Potassium oxalate monohydrate | | | 1 - < 5 % |
| | 209-506-8 | 607-007-00-3 | | |
| | Acute Tox. 4, Acute Tox. 4; H312 H302 | | | |
| 144-62-7 | oxalic acid | | | 1 - < 5 % |
| | 205-634-3 | 607-006-00-8 | | |
| | Acute Tox. 4, Acute Tox. 4, Eye Dam. 1; H312 H302 H318 | | | |
| 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 H400 H410 | | | |
| 16731-55-8 | dipotassium disulphite | | | 1 - < 5 % |
| | 240-795-3 | | 01-2119537422-45 | |
| | Eye Dam. 1, STOT SE 3; H318 H335 EUH031 | | | |

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 | | |
| 6487-48-5 | 209-506-8 | di-Potassium oxalate monohydrate | 1 - < 5 % |
| | dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg | | |
| 144-62-7 | 205-634-3 | oxalic acid | 1 - < 5 % |
| | dermal: LD50 = 20000 mg/kg; oral: ATE = 500 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 | | |
| 16731-55-8 | 240-795-3 | dipotassium disulphite | 1 - < 5 % |
| | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 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.
Call a physician immediately.

**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.

**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
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

### 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**

Do not breathe vapour/aerosol.

**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

### 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**

storage temperature >15°C

### 7.3. Specific end use(s)

Laboratory chemicals
For use in analytical devices.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational exposure limits**

| CAS No | Substance | ppm | mg/m³ | fib/cm³ | Category | Origin |
|---|---|---|---|---|---|---|
| 144-62-7 | Oxalic acid | - | 1 | | TWA (8 h) | |

**DNEL/DMEL values**

| CAS No | Substance | | | |
|---|---|---|---|---|
| DNEL type | | Exposure route | Effect | Value |
| 144-62-7 | oxalic acid | | | |
| Consumer DNEL, long-term | | dermal | systemic | 0,315 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,315 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,466 mg/m³ |
| Worker DNEL, long-term | | inhalation | systemic | 3,11 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 0,882 mg/kg bw/day |
| 16731-55-8 | dipotassium disulphite | | | |
| Worker DNEL, long-term | | inhalation | systemic | 263 mg/m³ |
| Consumer DNEL, long-term | | inhalation | systemic | 78 mg/m³ |
| Consumer DNEL, long-term | | oral | systemic | 10 mg/kg bw/day |

**PNEC values**

| CAS No | Substance |
|---|---|
| Environmental compartment | Value |
| 144-62-7 | oxalic acid |
| Freshwater | 0,16 mg/l |
| Marine water | 0,016 mg/l |
| Micro-organisms in sewage treatment plants (STP) | 1550 mg/l |
| 16731-55-8 | dipotassium disulphite |
| 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**

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.

**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.

**Thermal hazards**

No data available

**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: | green - grey | |
| Odour: | odourless | |
| 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: | 3,3 |
| Viscosity / kinematic: | No data available |
| Water solubility: | completely miscible |

Solubility in other solvents

No data available

| | |
|---|---|
| Dissolution rate: | No data available |
| Partition coefficient n-octanol/water: | No data available |
| Dispersion stability: | No data available |
| 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 |
| Particle characteristics: | 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

Oxidizing

**Other safety characteristics**

| | |
|---|---|
| Evaporation rate: | No data available |
| Solvent separation test: | No data available |
| Solvent content: | 0 |
| Solid content: | 0 |
| 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**

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

No data available

### 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

**Toxicocinetics, 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 |
| 6487-48-5 | di-Potassium oxalate monohydrate | | | | | |
| | oral | ATE | 500 mg/kg | | | |
| | dermal | ATE | 1100 mg/kg | | | |
| 144-62-7 | oxalic acid | | | | | |
| | oral | ATE | 500 mg/kg | | | |
| | dermal | LD50 | 20000 mg/kg | Rabbit | EMEA/MRL/891/03 (2003) | No |
| 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 |
| 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 |

**Irritation and corrosivity**

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

**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.

**Information on likely routes of exposure**

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

**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**

**Endocrine disrupting properties**

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

**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**

Toxic to aquatic life with long lasting effects.

| CAS No | Chemical name | | | | | | |
|---|---|---|---|---|---|---|---|
| | Aquatic toxicity | Dose | | [h] \| [d] | Species | Source | Method |
| 144-62-7 | oxalic acid | | | | | | |
| | Acute crustacea toxicity | EC50 | 162,2 mg/l | 48 h | Daphnia magna | REACh Registration Dossier | OECD Guideline 202 |
| 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 |
| 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 sewag | Study report (2010) | OECD Guideline 209 |

**12.2. Persistence and degradability**

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

**12.3. Bioaccumulative potential**

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

**Partition coefficient n-octanol/water**

| CAS No | Chemical name | Log Pow |
|---|---|---|
| 144-62-7 | oxalic acid | -1,7 |
| 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 preparation/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.

**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**

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

**Land transport (ADR/RID)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 3082 |
| **14.2. UN proper shipping name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis(4-hydroxy-N-methylanilinium) sulphate) |
| **14.3. Transport hazard class(es):** | 9 |
| **14.4. Packing group:** | III |
| Hazard label: | 9 |
| Classification code: | M6 |
| Special Provisions: | 274 335 375 601 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| Transport category: | 3 |
| Hazard No: | 90 |
| Tunnel restriction code: | - |

**Inland waterways transport (ADN)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 3082 |
| **14.2. UN proper shipping name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis(4-hydroxy-N-methylanilinium) sulphate) |
| **14.3. Transport hazard class(es):** | 9 |
| **14.4. Packing group:** | III |
| Hazard label: | 9 |
| Classification code: | M6 |
| Special Provisions: | 274 335 375 601 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |

**Marine transport (IMDG)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 3082 |
| **14.2. UN proper shipping name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis(4-hydroxy-N-methylanilinium) sulphate) |
| **14.3. Transport hazard class(es):** | 9 |
| **14.4. Packing group:** | III |

| | |
|---|---|
| Hazard label: | 9 |
| Special Provisions: | 274, 335, 969 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| EmS: | F-A, S-F |

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

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 3082 |
| **14.2. UN proper shipping name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis(4-hydroxy-N-methylanilinium) sulphate) |
| **14.3. Transport hazard class(es):** | 9 |
| **14.4. Packing group:** | III |
| Hazard label: | 9 |
| Special Provisions: | A97 A158 A197 |
| Limited quantity Passenger: | 30 kg G |
| Passenger LQ: | Y964 |
| Excepted quantity: | E1 |
| IATA-packing instructions - Passenger: | 964 |
| IATA-max. quantity - Passenger: | 450 L |
| IATA-packing instructions - Cargo: | 964 |
| IATA-max. quantity - Cargo: | 450 L |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes

**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

**National regulatory information**

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): 1,7,12.

**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 2; H411 | Calculation method |

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

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| 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. |
| H411 | Toxic 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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*