

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Reagent 130+R3402

Revision: 27.09.2023

Product code: 130+R3402

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Reagent 130+R3402

UFI: 4VRE-7RGM-U30R-Y85N

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Reagents and laboratory chemicals

Only for laboratory and analysis purposes.

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 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**

Carc. 1B; H350

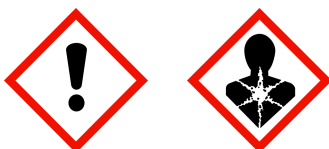
Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**

hydroxylammonium chloride

formaldehyde

Signal word: Danger**Pictograms:**

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Hazard statements

H317 May cause an allergic skin reaction.
H350 May cause cancer.

Precautionary statements

P201 Obtain special instructions before use.
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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
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

Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|-----------|--|--------------|------------------|-----------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 5470-11-1 | hydroxylammonium chloride | | | 1 - < 5 % |
| | 226-798-2 | 612-123-00-2 | 01-2120766309-45 | |
| | Met. Corr. 1, Carc. 2, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT RE 2, Aquatic Acute 1; H290 H351 H312 H302 H315 H319 H317 H373 H400 | | | |
| 50-00-0 | formaldehyde | | | < 1 % |
| | 200-001-8 | 605-001-00-5 | 01-2119488953-20 | |
| | Carc. 1B, Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1; H350 H341 H331 H311 H301 H314 H317 | | | |
| 67-56-1 | methanol | | | < 1 % |
| | 200-659-6 | 603-001-00-X | 01-2119433307-44 | |
| | Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370 | | | |

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 | |
| 5470-11-1 | 226-798-2 | hydroxylammonium chloride | 1 - < 5 % |
| | | dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg | |
| 50-00-0 | 200-001-8 | formaldehyde | < 1 % |
| | | inhalation: LC50 = < 463 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: LD50 = 460 mg/kg Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 5 - < 25 Eye Irrit. 2; H319: >= 5 - < 25 Skin Sens. 1; H317: >= 0,2 - 100 STOT SE 3; H335: >= 5 - 100 | |
| 67-56-1 | 200-659-6 | methanol | < 1 % |
| | | inhalation: LC50 = 128,2 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: LD50 = 6000 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 - < 10 | |

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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 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.

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

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

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**

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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

Consult an expert

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. Use extractor hood (laboratory).

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 .

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7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed.

Store in a place accessible by authorized persons only.

Hints on joint storage

national regulations

Further information on storage conditions

Protect against:

Light

storage temperature: $\leq 8^{\circ}\text{C}$ **7.3. Specific end use(s)**

Laboratory chemicals

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits**

| CAS No | Substance | ppm | mg/m ³ | fib/cm ³ | Category | Origin |
|---------|----------------|-----|-------------------|---------------------|---------------|--------|
| 50-00-0 | Formaldehyde | 0.3 | 0.37 | | TWA (8 h) | |
| | | 0.6 | 0.738 | | STEL (15 min) | |
| 67-56-1 | Methyl alcohol | 200 | 260 | | TWA (8 h) | |

Biological limit values

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|---------|-----------|-----------|---------|---------------|---------------|
| 67-56-1 | Methanol | Methanol | 15 mg/L | Urine | End of shift |

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DNEL/DMEL values

| CAS No | Substance | | | |
|--------------------------|----------------|--|----------|-------------------------|
| DNEL type | Exposure route | | Effect | Value |
| 50-00-0 | formaldehyde | | | |
| Worker DNEL, long-term | inhalation | | systemic | 9 mg/m ³ |
| Worker DNEL, long-term | inhalation | | local | 0,375 mg/m ³ |
| Worker DNEL, long-term | dermal | | systemic | 240 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | | systemic | 3,2 mg/m ³ |
| Consumer DNEL, long-term | inhalation | | local | 0,1 mg/m ³ |
| Consumer DNEL, long-term | dermal | | systemic | 102 mg/kg bw/day |
| Consumer DNEL, long-term | oral | | systemic | 4,1 mg/kg bw/day |
| Worker DNEL, acute | inhalation | | local | 0,75 mg/m ³ |
| 67-56-1 | methanol | | | |
| Consumer DNEL, acute | inhalation | | systemic | 50 mg/m ³ |
| Worker DNEL, long-term | inhalation | | systemic | 260 mg/m ³ |
| Worker DNEL, acute | inhalation | | systemic | 260 mg/m ³ |
| Worker DNEL, long-term | inhalation | | local | 260 mg/m ³ |
| Worker DNEL, acute | inhalation | | local | 260 mg/m ³ |
| Worker DNEL, long-term | dermal | | systemic | 40 mg/kg bw/day |
| Worker DNEL, acute | dermal | | systemic | 40 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | | systemic | 50 mg/m ³ |
| Consumer DNEL, long-term | inhalation | | local | 50 mg/m ³ |
| Consumer DNEL, acute | inhalation | | local | 50 mg/m ³ |
| Consumer DNEL, long-term | dermal | | systemic | 8 mg/kg bw/day |
| Consumer DNEL, acute | dermal | | systemic | 8 mg/kg bw/day |
| Consumer DNEL, long-term | oral | | systemic | 8 mg/kg bw/day |
| Consumer DNEL, acute | oral | | systemic | 8 mg/kg bw/day |

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PNEC values

| CAS No | Substance | |
|--|--------------|-----------|
| Environmental compartment | | Value |
| 50-00-0 | formaldehyde | |
| Freshwater | | 0,44 mg/l |
| Freshwater (intermittent releases) | | 4,44 mg/l |
| Marine water | | 0,44 mg/l |
| Freshwater sediment | | 2,3 mg/kg |
| Marine sediment | | 2,3 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 0,19 mg/l |
| Soil | | 0,2 mg/kg |
| 67-56-1 | methanol | |
| Freshwater | | 20,8 mg/l |
| Freshwater (intermittent releases) | | 1540 mg/l |
| Marine water | | 2,08 mg/l |
| Freshwater sediment | | 77 mg/kg |
| Marine sediment | | 7,7 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 100 mg/l |
| Soil | | 100 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 897 Butoject®

Recommended material: Butyl caoutchouc (butyl rubber) 0,3 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 720 Camapren®

Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm

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Wearing time with occasional contact (splashes): > 240 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).

Skin protection

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

Wash hands before breaks and after work.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

The entrepreneur 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 |
| 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: | 0,2 |
| 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: | 1,012 g/cm ³ |
| 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

Sustained combustibility:

No data available

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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:

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

No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No data available

10.2. Chemical stability

Protect against:

Light

storage temperature: $\leq 8^{\circ}\text{C}$ **10.3. Possibility of hazardous reactions**

No data available

10.4. Conditions to avoid

Protect against:

Light

storage temperature: $\leq 8^{\circ}\text{C}$ **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 mixture itself.

Acute toxicity

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

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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 |
| 5470-11-1 | hydroxylammonium chloride | | | | |
| | oral | ATE 500 mg/kg | | | |
| | dermal | ATE 1100 mg/kg | | | |
| 50-00-0 | formaldehyde | | | | |
| | oral | LD50 460 mg/kg | Rat | Kefo J Med 24: 19-37 (1975) | OECD Guideline 401 |
| | dermal | ATE 300 mg/kg | | | |
| | inhalation (4 h) vapour | LC50 < 463 mg/l | Rat | Study report (2015) | OECD Guideline 403 |
| | inhalation dust/mist | ATE 0,5 mg/l | | | |
| 67-56-1 | methanol | | | | |
| | oral | LD50 6000 mg/kg | Monkey | Amer J Ophthalmol 40: 76-83 (cited in DG) | Determination of the acute toxicity of t |
| | dermal | ATE 300 mg/kg | | | |
| | inhalation (4 h) vapour | LC50 128,2 mg/l | Rat | Study report (1980) | Study performed according to internal co |
| | inhalation dust/mist | ATE 0,5 mg/l | | | |

Irritation and corrosivity

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

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (hydroxylammonium chloride; formaldehyde)

Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer. (formaldehyde)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: 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 mixture itself.

Additional information on tests

There are no data available on the mixture itself.

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Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards**Other information**

There are no data available on the mixture itself.

Further information

There are no data available on the mixture itself.

SECTION 12: Ecological information**12.1. Toxicity**

There are no data available on the mixture itself.

| CAS No | Chemical name | | | | | |
|---------|--------------------------|----------------------|-----------|---------------------------------|---|--|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 50-00-0 | formaldehyde | | | | | |
| | Acute fish toxicity | LC50 27,57 mg/l | 96 h | Ictalurus punctatus | Prog.Fish-Cult. 20(1):8-15 (1958) | acute toxicity test; "static bioassay" |
| | Acute algae toxicity | ErC50 3,48 mg/l | 72 h | Desmodesmus subspicatus | Ecotoxicol Environ Safety 54: 346-354 (2008) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 5,8 mg/l | 48 h | Daphnia pulex | Water, Air and Soil Pollution 97, 315-32 (1998) | OECD Guideline 202 |
| | Fish toxicity | NOEC >= 48 mg/l | 28 d | Oryzias latipes | NTIS (ed.) Compendium of the FY1988 and | OECD Guideline 215 |
| | Crustacea toxicity | NOEC >= 6,4 mg/l | 21 d | Daphnia magna | Study report (2008) | OECD Guideline 211 |
| | Acute bacteria toxicity | EC50 19 mg/l () | 3 h | Activated sludge | Chemosphere 14, 1239-1251 (1985) | OECD Guideline 209 |
| 67-56-1 | methanol | | | | | |
| | Acute fish toxicity | LC50 15400 mg/l | 96 h | Lepomis macrochirus | Bulletin of Environmental Contamination | other: EPA-660/3-75-009, 1975 |
| | Acute algae toxicity | ErC50 ca. 22000 mg/l | 96 h | Pseudokirchneriella subcapitata | Ecotoxicology and Environmental Safety 7 | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 > 10000 mg/l | 48 h | Daphnia magna | Water Research 23(4): 495-499 (1989) | other: DIN 38412 Teil 11 |
| | Fish toxicity | NOEC 446,7 mg/l | 28 d | Pimephales promelas | SAR and QSAR in Environmental Research, | Calculation performed with ECOSAR |
| | Crustacea toxicity | NOEC 208 mg/l | 21 d | Daphnia magna | OECD QSAR Toolbox Report (2013) | Toxicity of the target chemical is predicted |

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.

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Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|---------------|---------|
| 50-00-0 | formaldehyde | 0,35 |
| 67-56-1 | methanol | -0,77 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|---------|---------------|-----|--|----------------------|
| 50-00-0 | formaldehyde | < 1 | Paralichthys olivaceus and Sebastes schlegeli | Aquaculture 194, 253 |
| 67-56-1 | methanol | 1 | Cyprinus carpio | Comparative Biochemi |

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.

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.

Do not allow to enter into surface water or 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:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

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Air transport (ICAO-TI/IATA-DGR)

| | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | 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, Entry 28, Entry 75

Information according to Directive
2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water hazard class (D): 3 - highly hazardous to water

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,3,6,9.

Abbreviations and acronyms

Met. Corr. 1: Corrosive to metals, hazard category 1
Flam. Liq. 2: Flammable liquids, hazard category 2
Acute Tox. 3: Acute toxicity, hazard category 3
Skin Corr. 1B: Skin corrosion, sub-category 1B
Skin Irrit. 2: Skin irritation, hazard category 2
Eye Irrit. 2: Eye irritation, hazard category 2
Skin Sens. 1: Skin sensitisation, hazard category 1
Muta. 2: Germ cell mutagenicity, hazard category 2
Carc. 1B: Carcinogenicity, hazard category 1B
STOT SE 1: Specific target organ toxicity - single exposure, hazard category 1
STOT RE 2: Specific target organ toxicity - repeated exposure, hazard category 2
Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification | Classification procedure |
|--------------------|--------------------------|
| Carc. 1B; H350 | Calculation method |
| Skin Sens. 1; H317 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H290 | May be corrosive to metals. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

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| | |
|------|--|
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H341 | Suspected of causing genetic defects. |
| H350 | May cause cancer. |
| H351 | Suspected of causing cancer. |
| H370 | Causes damage to organs (eyes, central nervous system). |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |

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. Provide appropriate information, instructions and training to users

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