



SAFETY DATA SHEET

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Revised edition no : 0

Date : 7 / 5 / 2012

Supersedes : 0 / 0 / 0

ENVIRO-CHEM AG**PI190140**

Xn : Harmful

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

1.1. Product identifier

Identification of the product : Liquid.
Trade name : ENVIRO-CHEM AG

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

Use : Industrial.
For professional use only.

Sector of use category : SU3: Industrial uses: Uses of substances as such or in preparations* at industrial sites
SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Article Category : AC30: Other articles with intended release of substances, please specify

Chemical product category : PC3: Air care products
PC20: Products such as ph-regulators, flocculants, precipitants, neutralization agents
PC37: Water treatment chemicals

Process category : PROC7: Industrial spraying
PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC11: Non industrial spraying
PROC19: Hand-mixing with intimate contact and only PPE available

Environmental release category : ERC8a: Wide dispersive indoor use of processing aids in open systems
ERC8b: Wide dispersive indoor use of reactive substances in open systems
ERC8d: Wide dispersive outdoor use of processing aids in open systems
ERC9a: Wide dispersive indoor use of substances in closed systems
ERC9b: Wide dispersive outdoor use of substances in closed systems

1.3. Details of the supplier of the safety data sheet

Company identification : SPECHIM S.A.
Place Capouillet 35
BE-1410 Waterloo Belgique-Belgie
Tel : 00 32 (02) 354 95 37
info@spechim.be

1.4. Emergency telephone number

Emergency phone nr : Tel : 00 32 (0)70 245 245

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

: Muta. Cat. 3; R68
Xn; R20/22
Xi; R36
R43
R52-53

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SECTION 2 Hazards identification (continued)

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

• Symbol(s)



• R Phrase(s)

: Xn : Harmful
: R20/22 : Harmful by inhalation and if swallowed.
R36 : Irritating to eyes.
R43 : May cause sensitization by skin contact.
R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R68 : Possible risks of irreversible effects.

• S Phrase(s)

: S36/37 : Wear suitable protective clothing and gloves.
S53 : Avoid exposure - obtain special instructions before use.

2.3. Other hazards

None under normal conditions.

SECTION 3 Composition/information on ingredients

3.1. Substance / 3.2. Preparation

Preparation.

Components

: This product is hazardous.

| Substance name | Contents | CAS No | EC No | Index No | REACH | Classification |
|-----------------------------|------------------------|------------|-----------|--------------|-------|--|
| Copper sulfate pentahydrate | : Between 0.01 and 1 % | 7758-99-8 | 231-847-6 | ---- | ---- | Xn; R22 Xi; R36/38 N; R50-53 ----- Acute Tox. 4 (H302) Eye irrit 2 (H319) Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |
| Zinc sulphate | : Between 0.01 and 1 % | 7733-02-0 | 231-793-3 | 030-006-00-9 | ---- | Xn; R22 Xi; R41 N; R50-53 ----- Eye Dam 1 (H318) Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |
| Fatty alcohol EO/PO | : Between 1 and 10 % | 68439-45-2 | POLYMER | ---- | ---- | Xn; R22 Xi; R41 ----- Eye Dam 1 (H318) Acute Tox. 4 (H302) |
| Benzaldehyde | : Between 1 and 5 % | 100-52-7 | 202-860-4 | 605-012-00-5 | ---- | Xn; R22 ----- Acute Tox. 4 (H302) |
| Glyoxal | : Between 1 and 10 % | 107-22-2 | 203-474-9 | 605-016-00-7 | ---- | Muta. Cat. 3; R68 Xn; R20 Xi; R36/38 R43 ----- Acute Tox. 4 (H332) Muta. 2 (H341) Eye irrit 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) |

SECTION 4 First aid measures

4.1. Description of first aid measures

First aid measures

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SECTION 4 First aid measures (continued)

- **Inhalation** : Assure fresh air breathing. If you feel unwell, seek medical advice (show the label where possible).
- **Skin contact** : Wash skin with mild soap and water.
Seek medical attention if ill effect develops.
- **Eye contact** : Rinse immediately with plenty of water.
Seek medical attention if ill effect develops.
- **Ingestion** : Rinse mouth. Do not induce vomiting. Take to hospital.

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

- Inhalation** : May cause irritation to the respiratory tract and to other mucous membranes.
- Skin contact** : May cause sensitization by skin contact.
Prolonged or repeated contact may cause skin to become dry or cracked.
- Eye contact** : Redness, pain. Tears.
- Ingestion** : Swallowing a small quantity of this material will result in serious health hazard.

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

No data available.

SECTION 5 Firefighting measures

5.1. Extinguishing media

Use water spray/fog for cooling.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for fire-fighters

- Flammable class** : Not flammable.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear recommended personal protective equipment.

6.2. Environmental precautions

Prevent entry to sewers and public waters. May contaminate water supplies.
Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up any spills as soon as possible, using an absorbent material to collect it.
Use appropriate container to avoid environmental contamination.
Flush residue with large amounts of water.

6.4. Reference to other sections

See Heading 8.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety procedures.
Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Avoid all unnecessary exposure.

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SECTION 7 Handling and storage (continued)

7.2. Conditions for safe storage, including any incompatibilities

Store in dry, cool, well-ventilated area.
Keep container closed when not in use.

7.3. Specific end use(s)

Not applicable.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Listed.

8.2. Exposure controls

- | | |
|---------------------------------|--|
| Personal protection | : Reserved to industrial installations. |
| - Respiratory protection | : Suitable respiratory equipment. |
| - Hand protection | : Wear gloves. |
| - Skin protection | : Skin protection appropriate to the conditions of use should be provided. |
| - Eye protection | : Safety glasses. |
| - Ingestion | : When using, do not eat, drink or smoke. |
| - Others | |



SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1.a • Appearance

- | | |
|--------------------------------|-----------|
| Physical state at 20 °C | : Liquid. |
| Colour | : Blue. |

9.1.b • Odour

- | | |
|--------------|-------------------|
| Odour | : Characteristic. |
|--------------|-------------------|

9.1.c • Odour threshold

No data available.

9.1.d • pH

- | | |
|-----------------|------------------------|
| pH value | : à 10 % : 5,00 - 5,50 |
|-----------------|------------------------|

9.1.e • Melting point / Freezing point

No data available.

9.1.f • Initial boiling point - boiling range

No data available.

9.1.g • Flash point

Not applicable.

9.1.h • Evaporation rate

No data available.

9.1.i • Flammability

No data available.

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SECTION 9 Physical and chemical properties (continued)

9.1.j • Explosion limits (lower - upper)

Not applicable.

9.1.k • Vapour pressure

No data available.

9.1.l • Vapour density

No data available.

9.1.m • Relative density

Density : 1,095 - 1,105

9.1.n • Solubility

Solubility in water : Complete.

9.1.o • Partition coefficient : n-octanol / water

No data available.

9.1.p • Auto-ignition temperature

No data available.

9.1.q • Thermal decomposition

No data available.

9.1.r • Viscosity

No data available.

9.1.s • Explosive Properties

Not applicable.

9.1.t • Oxidising properties

No data available.

9.2. Other information

No data available.

SECTION 10 Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Oxidizing agent.

10.4. Conditions to avoid

Overheating.

Protect from freezing.

10.5. Incompatible materials

Sodium hypochlorite.

10.6. Hazardous decomposition products

No data available.

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SECTION 11 Toxicological information

11.1. Information on toxicological effects

| | |
|--|-----------------------|
| Toxicity information | : No data available. |
| • Acute toxicity | |
| Rat oral LD50 [mg/kg] | : No data available. |
| • Skin corrosion/irritation | : No data available. |
| • Serious eye damage/irritation | : Irritating to eyes. |
| • Respiratory or skin sensitisation | : No data available. |
| • Germ cell mutagenicity | : No data available. |
| • Carcinogenicity | : No data available. |
| • Reproductive toxicity | : No data available. |
| • STOT-single exposure | : No data available. |
| • STOT-repeated exposure | : No data available. |
| • Aspiration hazard | : No data available. |

SECTION 12 Ecological information

12.1. Toxicity

No data available.

Ecological effects information : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

LC50-96 Hour - fish [mg/l] : No data available.

12.2. Persistence - degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

General : Avoid release to the environment. Dispose of this material and its container at hazardous or special waste collection point.
Dispose in a safe manner in accordance with local/national regulations.

SECTION 14 Transport information

General information

Emergency action in case of accident : Stop the engine.
No naked lights. No smoking.
Mark roads and warns other road users.
Keep public away from danger area.

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ENVIRO-CHEM AG**PI190140****SECTION 14 Transport information (continued)**

NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

SECTION 15 Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ensure all national/local regulations are observed.

15.2. Chemical Safety Assessment

No data available.

SECTION 16 Other information

List of relevant R phrases (heading 3) : R20 : Harmful by inhalation.
R22 : Harmful if swallowed.
R36/38 : Irritating to eyes and skin.
R41 : Risk of serious damage to eyes.
R43 : May cause sensitization by skin contact.
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R68 : Possible risks of irreversible effects.

List of relevant H phrases (heading 3) : H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H341 - Suspected of causing genetic defects.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

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Further information : None.

The contents and format of this SDS are in accordance with Regulation (EC) n°453/2010 of the European Parliament and of the Council.

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