

Date of issue: 29.11.2019 Replaces Data Sheet of: ---  
 "\*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available



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

- 1.1 **Product identifier**  
**Trade Name:** AlgoClear  
**Article No.:** n.av.  
**Preparation No.:** BG-F-KUPFERSULFAT-35  
**Authorisation No.:** DE-0013264-00-0000-2
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**  
 Identified uses: Pond care
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1.1 **Address of the Supplier:**  
 Oase GmbH, Tecklenburger Straße 161, 48477 Hörstel, Germany  
 Telephone: +49 (5454) 800, Telefax: +49 (5454) 8090, E-Mail: m.dreyer@oase-livingwater.com
- 1.3.1.2 **Address of the Company:**  
 Söll GmbH, Fuhrmannstr. 6, D- 95030 Hof  
 Telephone: +49 - 9281-72850, Telefax: +49 - 9281-1011, E-Mail: info@soelltec.de
- 1.3.2 **Responsible for the data sheet:**  
 CoSiChem AG, Ernst-Lemmer-Straße 23, 35041 Marburg, info@cosichem.de
- 1.4 **Emergency telephone number**  
 Emergency - Telephone of Company / Undertaking National Poisons Information Service  
 Telephone: +49 (5454) 80450 Telephone: +44 121 507 4123  
 Markus Dreyer, Forschung und Entwicklung (8:30 – 16:30)

## SECTION 2: Hazards identification

- 2.1 **Classification of the substance or mixture**  
 Aquatic Chronic 2; H411
- 2.2 **Label elements**  
 Classification according to 1272/2008/EC: Yes.  
 Applicable Exemptions: No.  
 Signal word(s): n.ap.  
 Component(s):
- Hazard pictogram(s):
- 
- H - Phrases:**  
 H411: Toxic to aquatic life with long lasting effects.
- P - Phrases:**  
 P102: Keep out of reach of children.  
 P273: Avoid release to the environment.  
 P391: Collect spillage.  
 P501: Dispose of contents/container to special waste collection point.
- Additional Markings:
- 2.3 **Other hazards**  
 May cause skin and eye irritation in susceptible persons. May be harmful if swallowed.  
 This mixture contains no substances which are assessed to be PBT or vPvB.  
 Possible toxic effects on fish and plankton / invertebrates.  
 An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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**SECTION 3: Composition/information on ingredients****3.1 Substances**

n.ap.

**3.2 Mixtures****Chemical Characterisation:**

Mixture; aqueous solution of biocides

**Dangerous Ingredients:**

Material	Index - No.	EC - No.	REACH - No.	m% - range
CAS - No. Hazard Code(s) / H - phrases				
<b>Copper sulfate pentahydrat</b> 7758-99-8 Acute Tox. 4; H302 / Eye Dam. 1; H318 / Aquatic Acute 1; H400; M=10 / Aquatic Chronic 1; H410	029-004-00-0	231-847-6	01-2119520566-40-xxx	<b>0,28 - 0,95%</b>

Text of H - phrases: see section 16

m% - range: x - y  $\triangleq$  x  $\geq$  - < y**SECTION 4: First aid measures****4.1 Description of first aid measures****4.1.1 Inhalation:**

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

If symptoms persist, call a physician.

**4.1.2 Skin Contact:**

Rinse with water. If symptoms persist, call a physician.

**4.1.3 Eye Contact:**

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**4.1.4 Ingestion:**

Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting.

If you feel unwell, seek medical advice (show the label where possible).

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

None known.

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****5.1.1 Suitable Extinguishing Media:**Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.**5.1.2 Extinguishing Media to Avoid:**

None.

**5.2 Special hazards arising from the substance or mixture**

In the event of fire the following can be released: respirable dust sulphur oxides.

**5.3 Advice for firefighters****5.3.1 Special Protective Equipment:**

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

**5.3.2 Additional Information:**

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**SECTION 6: Accidental release measures**

- 6.1 **Personal precautions, protective equipment and emergency procedures**  
See chapter 8.2.2
- 6.2 **Environmental precautions**  
Do not let product enter drains. Do not flush into surface water.  
Do not allow material to contaminate ground water system.  
Local authorities should be advised if significant spillages cannot be contained.
- 6.3 **Methods and material for containment and cleaning up**  
Soak up with inert absorbent material (e.g. sand, universal binder, sawdust).  
Shovel into suitable container for disposal.
- 6.4 **Reference to other sections**  
None.

**SECTION 7: Handling and storage**

- 7.1 **Precautions for safe handling**
- 7.1.1 **Precautions for Safe Handling:**  
Avoid contact with the skin and the eyes. Take off all contaminated clothing immediately.  
When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday.  
Use biocides safely. Take notice of the directions of use on the label.  
Always read the label and product information before use.  
Handle in accordance with good industrial hygiene and safety practice.  
Do not use together with strong bases.
- 7.1.2 **Precautions in Case of Fire and Explosion:**  
Normal measures for preventive fire protection.
- 7.2 **Conditions for safe storage, including any incompatibilities**
- 7.2.1 **Storage Instructions:**  
Keep container tightly closed in a dry and well-ventilated place. Avoid subsoil penetration.  
Keep in a banded area. Keep at temperatures between 4 and 25°C. Protect against freezing.
- 7.2.2 **Store away from:**  
Do not store together with strong bases.
- 7.2.3 **Further Information on Storage Conditions:**  
Ensure adequate ventilation.
- 7.3 **Specific end use(s)**  
n.av.

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

- 8.1 **Control parameters**

<b>Material</b>	<b>Limit Value</b>

- 8.2 **Exposure controls**
- 8.2.1 **Appropriate engineering controls**  
Ensure adequate ventilation.
- 8.2.2 **Individual protection measures**
- 8.2.2a **Respiratory Protection:** Not required under normal use.
- 8.2.2b **Hand Protection:** Repeated or prolonged exposure: Protective gloves complying with EN 374.  
The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- 8.2.2c **Eye Protection:** In case of contact through splashing: safety glasses
- 8.2.2d **Skin Protection:** No.
- 8.2.2e **Further Information:** Observe wearing time limits:
- 8.2.3 **Environmental exposure controls:**  
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**SECTION 9: Physical and chemical properties**9.1 **Information on basic physical and chemical properties**

9.1.1	<b>Form:</b> liquid	<b>Colour:</b> red	<b>Odour:</b> odourless
			<b>Odour threshold:</b> n.av.
9.1.2	pH-value, undiluted:	~ 2	
	pH-value, 1% aqueous solution:	n.av.	
9.1.3	Boiling point / Boiling - range (°C):	~100, Melting point / Melting range (°C):	n.ap.
9.1.4	Flash point (°C):	n.av., closed cup	
9.1.5	Flammability (EEC A10/A13):	No.	
9.1.6	Ignition temperature (°C):	n.ap.	
9.1.7	Autoflammability (EEC A16):	n.ap.	
9.1.8	Oxidising properties:	No.	
9.1.9	Explosion hazard:	None.	
9.1.10	Explosion limits (Vol.%) lower:	n.ap., upper: n.ap.	
9.1.11	Vapour pressure:	n.av.	
	Vapour density (Air = 1):	n.av.	
9.1.12	Density (g/ml):	~ 1	
9.1.13	Solubility (in Water):	miscible	
9.1.14	Partition coefficient, n-Octanol / Water:	n.av.	
9.1.15	Viscosity:	n.av.	
9.1.16	Solvent content (m %):	n.ap.	
9.1.17	Thermal decomposition (°C):	n.av.	
9.1.18	Evaporation rate:	n.av.	
9.2	<b>Other information</b>		
	n.av.		

**SECTION 10: Stability and reactivity**

10.1	<b>Reactivity</b>
	No information available.
10.2	<b>Chemical stability</b>
	Stable under normal conditions.
10.3	<b>Possibility of hazardous reactions</b>
	No dangerous reaction known under conditions of normal use.
10.4	<b>Conditions to avoid</b>
	No hazards to be specially mentioned.
10.5	<b>Incompatible materials</b>
	Incompatible with bases.
10.6	<b>Hazardous decomposition products</b>
	No decomposition if used as directed.
	To avoid thermal decomposition, do not overheat.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Acute Health Effects:

Inhalation: n.av.

Ingestion: n.av.

Skin Contact: n.av.

Skin corrosion / irritation: Slight.

Serious eye damage / irritation: Slight.

Respiratory or skin sensitisation: No.

Germ cell mutagenicity: n.av.

Carcinogenicity: n.av.

Reproductive toxicity: n.av.

STOT-single exposure: n.av.

STOT-repeated exposure: n.av.

Aspiration hazard: n.av.

**11.1.1 – Practical Experience**

11.1.1.1 n.av.

11.1.1.2 Practical Experience

Observations relevant for classification:

None.

Further Observations:

None.

Classification of the preparation has been done by calculation in accordance with EEC directives.

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

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Ecological injuries are not known or expected under normal use.

Product EC<sub>50</sub>/48h/daphnia = 36 mg / l (OECD 202)<sup>1)</sup>

Information given is based on data obtained from similar substance.

Copper sulfate: LC<sub>50</sub>/96h/Fathead minnows = 193 µg / l<sup>2)</sup>**12.2 Persistence and degradability**

The methods for determining biodegradability are not applicable to inorganic substances.

**12.3 Bioaccumulative potential**

n.av.

**12.4 Mobility in soil**

n.av.

**12.5 Results of PBT and vPvB assessment**

This mixture contains no substances which are assessed to be PBT or vPvB.

**12.6 Other adverse effects**

12.6.1 COD-Value, mg/g: n.av.

12.6.2 BOD5-Value, mg/g: n.av.

12.6.3 AOX-Remarks: Not applicable.

12.6.4 Significant Components: Copper sulphate

12.6.5 Other adverse effects: Not applicable.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

13.1.1 Recommendation: D10

Waste - Code - No.: 06 03 13

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

In addition comply with the regional authorities.

**13.2 Contaminated Packaging**

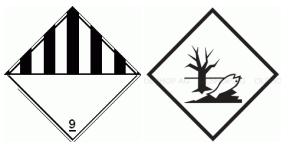
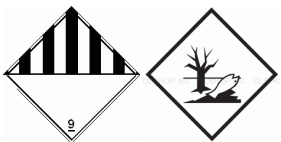
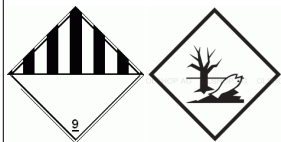
13.2.1 Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.

13.2.2 Safe Handling: As described under Residues.

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**SECTION 14: Transport information**

	ADR	IMDG	IATA
14.1	<b>UN number</b> 3082	3082	3082
14.2	<b>UN proper shipping name</b> UN 3082 Environmentally hazardous substance, liquid, n.o.s (contains copper sulphate)	Environmentally hazardous substance, liquid, n.o.s (contains copper sulphate) MARINE POLLUTANT	Environmentally hazardous substance, liquid, n.o.s (contains copper sulphate)
14.3	<b>Transport hazard class(es)</b> 9 	9 	9 
14.4	<b>Packing group</b> III	III	III
14.5	<b>Environmental hazards</b>	Yes.	
14.6	<b>Special precautions for user</b> Transport category: 3 Classification Code: M6 Hazard - No.: 90 LQ: 5 L	F-A, S-F	Packing Instructions (Passenger) 964 Packing Instructions (Cargo) 964
14.7	<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	n.av.	

**SECTION 15: Regulatory information**

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
n.av.
- 15.2 **Chemical safety assessment :**  
n.ap.

**SECTION 16: Other information**

**Text of H phrases mentioned in Section 3**

H302: Harmful if swallowed.  
 H318: Causes serious eye damage.  
 H400: Very toxic to aquatic life.  
 H410: Very toxic to aquatic life with long lasting effects.

**Literature:**

- 1) Daphnia immobility test (Daphnia magna) according to OECD Guideline 202: DAC17001, VITO ABS, Belgium
- 2) REACH-Dossier Copper sulfate

This datasheet has been compiled in accordance with EU regulation 2015/830.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

Prepared by: CoSiChem AG, Ernst-Lemmer-Straße 23, 35041 Marburg, info@cosichem.de, +49 6421 97905 0  
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