



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.05.2022

Version number 3

Revision: 10.05.2022

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

**1.1 Product identifier****Trade name:** 002514-/002515- • ThermoClean BI**SDS-ID (International):** 100129-8**SDS Download URL:** [www.sds-id.com/](http://www.sds-id.com/)**1.2 Relevant identified uses of the substance or mixture and uses advised against***Only use for indicated purposes.***Application of the substance / the preparation:** *Laboratory reagent.***1.3 Details of the supplier of the safety data sheet****Manufacturer:***Bioanalytic GmbH**Waldmatten 10-13 • 79224 Umkirch/Freiburg • Germany***Further information obtainable from:***Fon: +49 7665 5951 (de) • Fax: +49 7665 5683 (de/en) • [safety@bioanalytic.de](mailto:safety@bioanalytic.de) (de/en) •**Internet: [www.bioanalytic.de](http://www.bioanalytic.de) > Download > Safety***1.4 Emergency telephone number:***Fon: +49 7665 5951 (de) • Fax: +49 7665 5683 (de/en) • [safety@bioanalytic.de](mailto:safety@bioanalytic.de) (de/en)**Available during business time ([www.bioanalytic.de](http://www.bioanalytic.de) > Imprint).**Or a poison center in your area.*

### 2 Hazards identification

**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008***Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.***2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008***The product is classified and labelled according to the CLP regulation.***Hazard pictograms** *Void***Signal word** *Void***Hazard statements***H412 Harmful to aquatic life with long lasting effects.***Precautionary statements***P273 Avoid release to the environment.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** *Not applicable.***vPvB:** *Not applicable.*

### 3 Composition/information on ingredients

**3.2 Chemical characterisation: Mixtures****Description:** *Mixture of substances listed below with nonhazardous additions.***Dangerous components:**

|                            |                                                         |             |
|----------------------------|---------------------------------------------------------|-------------|
| CAS: 7758-98-7             | copper sulphate                                         | ≥0.25-<2.5% |
| EINECS: 231-847-6          | Aquatic Acute 1, H400;  Aquatic Chronic 1, H410;  Acute |             |
| Index number: 029-004-00-0 | Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319   |             |

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· **Additional information:** *For the wording of the listed hazard phrases refer to section 16.*

### 4 First aid measures

- **4.1 Description of first aid measures**
  - **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*
  - **After skin contact:** *Generally the product does not irritate the skin.*
  - **After eye contact:** *Rinse opened eye for several minutes under running water.*
  - **After swallowing:** *If symptoms persist consult doctor.*
- **4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **4.3 Indication of any immediate medical attention and special treatment needed**  
*No further relevant information available.*

### 5 Firefighting measures

- **5.1 Extinguishing media**
  - **Suitable extinguishing agents:** *Use fire extinguishing methods suitable to surrounding conditions.*
- **5.2 Special hazards arising from the substance or mixture** *No further relevant information available.*
- **5.3 Advice for firefighters**
  - **Protective equipment:** *No special measures required.*

### 6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** *Not required.*
- **6.2 Environmental precautions:**
  - Do not allow product to reach sewage system or any water course.*
  - Inform respective authorities in case of seepage into water course or sewage system.*
  - Dilute with plenty of water.*
  - Do not allow to enter sewers/ surface or ground water.*
- **6.3 Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*
  - Dispose contaminated material as waste according to item 13.*
- **6.4 Reference to other sections**
  - See Section 7 for information on safe handling.*
  - See Section 8 for information on personal protection equipment.*
  - See Section 13 for disposal information.*

### 7 Handling and storage

- **7.1 Precautions for safe handling** *No special precautions are necessary if used correctly.*
- **Information about fire - and explosion protection:** *No special measures required.*

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- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: *No special requirements.*
  - Information about storage in one common storage facility: *Not required.*
  - Further information about storage conditions: *None.*
  - Storage class: *12*
- 7.3 Specific end use(s) *No further relevant information available.*

**8 Exposure controls/personal protection**

- 8.1 Control parameters
  - Additional information about design of technical facilities: *No further data; see item 7.*
  - Ingredients with limit values that require monitoring at the workplace:  
*The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*
  - Additional information: *The lists valid during the making were used as basis.*
- 8.2 Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures: *Wash hands before breaks and at the end of work.*
    - Respiratory protection: *Not required.*
    - Protection of hands:  
*The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374. The recommendations apply only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. 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.*
    - Eye protection: *Goggles recommended during refilling*

**9 Physical and chemical properties**

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:
  - Form: *Fluid*
  - Colour: *According to product version*
- Odour: *Characteristic*
- Odour threshold: *Not determined.*
- pH-value at 20 °C: *5*
- Change in condition
  - Melting point/freezing point: *0 °C*
  - Initial boiling point and boiling range: *100 °C*
- Flash point: *Not applicable.*
- Flammability (solid, gas): *Not applicable.*
- Decomposition temperature: *Not determined.*

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|                                           |                                                      |
|-------------------------------------------|------------------------------------------------------|
| · Auto-ignition temperature:              | <i>Product is not selfigniting.</i>                  |
| · Explosive properties:                   | <i>Product does not present an explosion hazard.</i> |
| · Explosion limits:                       |                                                      |
| Lower:                                    | <i>Not determined.</i>                               |
| Upper:                                    | <i>Not determined.</i>                               |
| · Vapour pressure at 20 °C:               | <i>23 hPa</i>                                        |
| · Density at 20 °C:                       | <i>1 g/cm<sup>3</sup></i>                            |
| · Relative density                        | <i>Not determined.</i>                               |
| · Vapour density                          | <i>Not determined.</i>                               |
| · Evaporation rate                        | <i>Not determined.</i>                               |
| · Solubility in / Miscibility with water: | <i>Fully miscible.</i>                               |
| · Partition coefficient: n-octanol/water: | <i>Not determined.</i>                               |
| · Viscosity:                              |                                                      |
| Dynamic:                                  | <i>Not determined.</i>                               |
| Kinematic:                                | <i>Not determined.</i>                               |
| · Solvent content:                        |                                                      |
| Water:                                    | <i>99.2 %</i>                                        |
| · 9.2 Other information                   | <i>No further relevant information available.</i>    |

### 10 Stability and reactivity

- 10.1 Reactivity *No further relevant information available.*
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: *No decomposition if used according to specifications.*
- 10.3 Possibility of hazardous reactions *No dangerous reactions known.*
- 10.4 Conditions to avoid *No further relevant information available.*
- 10.5 Incompatible materials: *No further relevant information available.*
- 10.6 Hazardous decomposition products: *No dangerous decomposition products known.*

### 11 Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity *Based on available data, the classification criteria are not met.*
- Primary irritant effect:
- Skin corrosion/irritation *Based on available data, the classification criteria are not met.*
- Serious eye damage/irritation *Based on available data, the classification criteria are not met.*
- Respiratory or skin sensitisation *Based on available data, the classification criteria are not met.*
- Additional toxicological information:
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity *Based on available data, the classification criteria are not met.*
- Carcinogenicity *Based on available data, the classification criteria are not met.*
- Reproductive toxicity *Based on available data, the classification criteria are not met.*

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- 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.*

### 12 Ecological information

- 12.1 Toxicity
- Aquatic toxicity: *No further relevant information available.*
- 12.2 Persistence and degradability *No further relevant information available.*
- 12.3 Bioaccumulative potential *No further relevant information available.*
- 12.4 Mobility in soil *No further relevant information available.*
- Ecotoxicological effects:
- Remark: *Harmful to fish*
- Additional ecological information:
- General notes:  
*Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water*  
*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*  
*Harmful to aquatic organisms*
- 12.5 Results of PBT and vPvB assessment
- PBT: *Not applicable.*
- vPvB: *Not applicable.*
- 12.6 Other adverse effects *No further relevant information available.*

### 13 Disposal considerations

- 13.1 Waste treatment methods
- Recommendation  
*Must not be disposed together with household garbage. Do not allow product to reach sewage system.*
- Uncleaned packaging:
- Recommendation: *Disposal must be made according to official regulations.*
- Recommended cleansing agents: *Water, if necessary together with cleansing agents.*

### 14 Transport information

- |                                   |             |
|-----------------------------------|-------------|
| · 14.1 UN-Number                  |             |
| · ADR, ADN, IMDG, IATA            | <i>Void</i> |
| · 14.2 UN proper shipping name    |             |
| · ADR, ADN, IMDG, IATA            | <i>Void</i> |
| · 14.3 Transport hazard class(es) |             |
| · ADR, ADN, IMDG, IATA            |             |
| · Class                           | <i>Void</i> |
| · 14.4 Packing group              |             |
| · ADR, IMDG, IATA                 | <i>Void</i> |

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- |                                                                           |                 |
|---------------------------------------------------------------------------|-----------------|
| · 14.5 Environmental hazards:                                             |                 |
| · Marine pollutant:                                                       | No              |
| · 14.6 Special precautions for user                                       | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation":                                                  | Void            |

### 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I *None of the ingredients is listed.*
  - REGULATION (EC) No 1907/2006 ANNEX XVII *Conditions of restriction: 3*
  - DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
    - None of the ingredients is listed.*
  - REGULATION (EU) 2019/1148
    - Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
      - None of the ingredients is listed.*
    - Annex II - REPORTABLE EXPLOSIVES PRECURSORS
      - None of the ingredients is listed.*
    - Regulation (EC) No 273/2004 on drug precursors
      - None of the ingredients is listed.*
    - Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
      - None of the ingredients is listed.*
- 15.2 Chemical safety assessment: *A Chemical Safety Assessment has not been carried out.*

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- Relevant phrases
  - H302 Harmful if swallowed.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H400 Very toxic to aquatic life.
  - H410 Very toxic to aquatic life with long lasting effects.
- Department issuing SDS: *Product safety department*
- Contact: *eMail: safety@bioanalytic.de (de/en)*

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**· Abbreviations and acronyms:**

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Acute Tox. 4: Acute toxicity – Category 4*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*

*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*

*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

**· \* Data compared to the previous version altered.**

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