



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 21.02.2019

Version number 11

Revision: 21.02.2019

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

### 1.1 Product identifier

Trade name: 002511-, 002512- • ThermoClean DC (colorless & blue)

SDS-ID (International): 100006-8

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: *Stabiliser/ Inhibitor*

### 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



GHS07

*Skin Irrit. 2            H315 Causes skin irritation.*

*Eye Irrit. 2            H319 Causes serious eye irritation.*

*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



GHS07

Signal word *Warning*

Hazard statements

*H315 Causes skin irritation.*

*H319 Causes serious eye irritation.*

*H412 Harmful to aquatic life with long lasting effects.*

Precautionary statements

*P273                    Avoid release to the environment.*

(Contd. on page 2)



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Trade name: 002511-, 002512- • *ThermoClean DC (colorless & blue)*

(Contd. of page 1)

P280 *Wear protective gloves / eye protection / face 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.*  
P332+P313 *If skin irritation occurs: Get medical advice/attention.*  
P337+P313 *If eye irritation persists: Get medical advice/attention.*  
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: 68424-85-1 EINECS: 270-325-2 Index number: 612-140-00-5	quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312	≥2.5-<3%
CAS: 25988-97-0	N,N-Dimethyl-2-hydroxypropylammoniumchlorid polymer ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	≥0.25-<2.5%

- **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**
- **General information:** *Immediately remove any clothing soiled by the product.*
- **After inhalation:** *In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:**  
*Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*
- **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.*

(Contd. on page 3)



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Trade name: **002511-, 002512- • ThermoClean DC (colorless & blue)**

(Contd. of page 2)

- **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.*
- **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:** *Keep container tightly sealed.*
- **Storage class:** 12
- **7.3 Specific end use(s)** *No further relevant information available.*

\* **8 Exposure controls/personal protection**

- **Additional information about design of technical facilities:** *No further data; see item 7.*
- **8.1 Control parameters**
- **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:**  
*Keep away from foodstuffs, beverages and feed.*  
*Immediately remove all soiled and contaminated clothing*

(Contd. on page 4)



**Safety data sheet**  
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Version number 11

Revision: 21.02.2019

Trade name: **002511-, 002512- • ThermoClean DC (colorless & blue)**

(Contd. of page 3)

*Wash hands before breaks and at the end of work.*

*Avoid contact with the eyes and skin.*

· **Respiratory protection:** *Not required.*

· **Protection of hands:**



*Protective gloves*

· **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

*Glove material: Natural rubber*

*Glove thickness: 0.6 mm*

*Break through time: 60 min*

· **As protection from splashes gloves made of the following materials are suitable:**

*Glove material: Nitrile rubber*

*Glove thickness: 0.40 mm*

*Break through time: 480 min*

· **Eye protection:**



*Tightly sealed goggles*

## 9 Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

**Form:** *Fluid*

**Colour:** *Different according to colouring*

· **Odour:** *Slightly*

· **Odour threshold:** *Not determined.*

· **pH-value at 20 °C:** *6*

#### · 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.*

· **Auto-ignition temperature:** *Product is not selfigniting.*

· **Explosive properties:** *Product does not present an explosion hazard.*

#### · Explosion limits:

**Lower:** *Not determined.*

**Upper:** *Not determined.*

(Contd. on page 5)



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Version number 11

Revision: 21.02.2019

Trade name: **002511-, 002512- • ThermoClean DC (colorless & blue)**

(Contd. of page 4)

· Vapour pressure at 20 °C:	23 hPa
· Density at 20 °C:	1.01 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content: Water:	95.0 %
· 9.2 Other information	No further relevant information available.

## 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.*

· **LD/LC50 values relevant for classification:**

**25988-97-0 N,N-Dimethyl-2-hydroxypropylammoniumchlorid polymer**

Oral	LD50	1,672 mg/kg (rat) (OECD-Prüfrichtlinie 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD-Prüfrichtlinie 402)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
*Causes skin irritation.*
- **Serious eye damage/irritation**  
*Causes serious eye irritation.*
- **Respiratory or skin sensitisation** *Based on available data, the classification criteria are not met.*
- **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.*

(Contd. on page 6)



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(Contd. of page 5)

- **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**

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

(Contd. on page 7)





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(Contd. of page 6)

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

## 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*
- **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.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
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](mailto:safety@bioanalytic.de) (de/en)*

- **Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord européen sur le transport 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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1*

(Contd. on page 8)



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(Contd. of page 7)

*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.**

—EU—