

## Safety data sheet

acc. to 1907/2006/EC, Article 31 (REACH), 1272/2008/EC (CLP)

Printing date 30.08.2017

Version number 1

Revision: 30.08.2017

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

#### 1.1 Product identifier

Trade name **Aquasept Inline**  
Article number: **28989B**

CAS Number:

87-90-1

EC number:

201-782-8

Index number:

613-031-00-5

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

No further relevant information available.

Application of the substance / the mixture Water disinfectant

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ANTI-GERM International GmbH  
Memmingen site: Oberbrühlstraße 16-18,  
D-87700 Memmingen

Tel: +49 (0) 8331-8360-0

Fax: +49 (0) 8331-8360-50

www.anti-germ.com

info@anti-germ.com

Information: sdb@anti-germ.de

#### 1.4 Emergency telephone number:

N° d' appel d'urgence Orfila (INRS): +33 1 45 42 59 59 (24 h)

Germany: +49 (0) 8331-8360-0 (office opening times): Mon - Fri 8:00 till 12:00, Mon - Thurs 13:00 to 16:00

Austria: +43 (0) 6216 6639-0 (office opening times): Mon - Fri 7:30 to 12:00, Mon - Thurs 12:45 to 17:00 or  
Poisons Information Centre +43 1 406 43 43

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Ox. Sol. 2 H272 May intensify fire; oxidiser.

Acute Tox. 4 H302 Harmful if swallowed.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS03

GHS07

GHS09

Signal word Danger

(Contd. on page 2)

GB

## Safety data sheet

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Printing date 30.08.2017

Version number 1

Revision: 30.08.2017

Trade name Aquasept Inline  
Article number: 28989B

(Contd. of page 1)

### . Hazard statements

- H272 May intensify fire; oxidiser.
- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H410 Very toxic to aquatic life with long lasting effects.

### . Precautionary statements

- P221 Take any precaution to avoid mixing with combustibles.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### . Additional information:

- EUH031 Contact with acids liberates toxic gas.

## SECTION 3: Composition/information on ingredients

### . 3.1 Chemical characterisation: Substances

#### . CAS No. Designation:

87-90-1 symclosene

#### . Identification number(s):

. EC number: 201-782-8

. Index number: 613-031-00-5

## SECTION 4: First aid measures

### . 4.1 Description of first aid measures

#### . General information

Instantly remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### . After inhalation :

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

#### . After skin contact :

Instantly rinse with water.

If skin irritation continues, consult a doctor.

. After eye contact : Rinse opened eye for 15 minutes under running water. Then consult doctor.

#### . After swallowing :

Do not induce vomiting.

Drink copious amounts of water (app. 500 ml) and provide fresh air. Instantly call for doctor.

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

Emits highly irritating vapor. Inhalation of high concentrations may cause irritation of the nose and throat, difficulty breathing, nausea and headaches. Risk of pulmonary edema, chemical burns of the respiratory tract. Some habituation to the smell may occur.

Causes serious eye irritation.

(Contd. on page 3)

## Safety data sheet

acc. to 1907/2006/EC, Article 31 (REACH), 1272/2008/EC (CLP)

Printing date 30.08.2017

Version number 1

Revision: 30.08.2017

Trade name Aquasept Inline  
Article number: 28989B

(Contd. of page 2)

- . **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- . **5.1 Extinguishing media**
- . **Suitable extinguishing agents**  
Water  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with foam.
- . **For safety reasons unsuitable extinguishing agents**  
Extinguishing foam.  
Carbon dioxide
- . **5.2 Special hazards arising from the substance or mixture**  
Fire can cause release of :  
Carbon monoxide (CO)  
Chlorine gas (Cl<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)
- . **5.3 Advice for firefighters**
- . **Protective equipment:**  
Wear self-contained breathing apparatus.  
Wear full protective suit.
- . **Additional information**  
Collect contaminated fire fighting water separately. It must not enter drains.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.  
Ensure adequate ventilation
- . **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or water bodies.  
Inform respective authorities in case product reaches water or sewage system.
- . **6.3 Methods and material for containment and cleaning up:**  
Collect mechanically.  
Avoid causing dust.  
Dispose of contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- . **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 information on disposal.

### SECTION 7: Handling and storage

- . **7.1 Precautions for safe handling**  
Keep containers tightly sealed.  
Ensure good ventilation/exhaustion at the workplace.
- . **Information about protection against explosions and fires:**  
Organic substances in general are susceptible to dust explosion.

(Contd. on page 4)

## Safety data sheet

acc. to 1907/2006/EC, Article 31 (REACH), 1272/2008/EC (CLP)

Printing date 30.08.2017

Version number 1

Revision: 30.08.2017

Trade name Aquasept Inline  
Article number: 28989B

(Contd. of page 3)

- . **7.2 Conditions for safe storage, including any incompatibilities**
- . **Storage**
- . **Requirements to be met by storerooms and containers:** Store only in the original container.
- . **Information about storage in one common storage facility:**
  - Do not store together with acids.
  - Do not store together with alkalis (caustic solutions).
  - Store away from oxidising agents.
- . **Further information about storage conditions:**
  - Store in cool, dry conditions in well sealed containers.
  - Protect from heat and direct sunlight.
- . **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- . **8.1 Control parameters**
- . **Components with critical values that require monitoring at the workplace:** Not required.
- . **Additional information:** The lists that were valid during compilation were used as a basis.
- . **8.2 Exposure controls**
- . **Personal protective equipment**
- . **General protective and hygienic measures**
  - Do not inhale dust / smoke / mist.
  - Keep away from foodstuffs, beverages and food.
  - Do not eat or drink while working.
  - Instantly remove any soiled and impregnated garments.
  - Wash hands during breaks and at the end of the work.
  - Avoid contact with the eyes and skin.
- . **Breathing equipment:**
  - In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- . **Protection of hands:**
  - Protective gloves:
  - In case of spray contact at least protection index 2 recommended, according to more than 30 min. penetration time (EN 374).
  - Layer thickness of gloves at least: 0.4 mm
  - In case of prolonged and intensive contact protection index 6 recommended, according to more than 480 min. penetration time (EN 374).
  - Layer thickness of gloves at least: 0.7 mm
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- . **Material of gloves**
  - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- . **Penetration time of glove material**
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- . **Eye protection:** Tightly sealed safety glasses (DIN 58211, EN 166)
- . **Body protection:**
  - Chemical resistant protective clothing
  - Wash clothing before using again.

(Contd. on page 5)

## Safety data sheet

acc. to 1907/2006/EC, Article 31 (REACH), 1272/2008/EC (CLP)

Printing date 30.08.2017

Version number 1

Revision: 30.08.2017

Trade name Aquasept Inline  
Article number: 28989B

(Contd. of page 4)

### SECTION 9: Physical and chemical properties

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

##### . General Information

##### . Appearance:

Form:	Solid
Colour:	White
Smell:	Like chlorine
Odour threshold:	Not determined.

. pH-value (10 g/l) at 25 °C: 3

##### . Change in condition

Melting point/freezing point:	225-240 °C
Initial boiling point and boiling range:	not applicable

. Flash point: Not applicable

. Inflammability (solid, gaseous) Product is not inflammable.

##### . Ignition temperature:

Decomposition temperature: Not determined.

. Self-inflammability: Not determined.

. Explosive properties: not applicable

##### . Critical values for explosion:

Lower:	Not determined.
Upper:	Not determined.

. Oxidising properties not determined

. Steam pressure: Not applicable.

##### . Density

Relative density	Not determined.
Vapour density	Not applicable.

Evaporation rate Not applicable.

##### . Solubility in / Miscibility with

Water at 25 °C: 12 g/l

. Partition coefficient: n-octanol/water: Not determined.

##### . Viscosity:

dynamic:	Not applicable.
kinematic:	Not applicable.

. 9.2 Other information No further relevant information available.

### SECTION 10: Stability and reactivity

#### . 10.1 Reactivity

No hazardous reactions when stored and handled according to instructions.  
Occur hypochlorous acid when dissolve product in water.

(Contd. on page 6)

## Safety data sheet

acc. to 1907/2006/EC, Article 31 (REACH), 1272/2008/EC (CLP)

Printing date 30.08.2017

Version number 1

Revision: 30.08.2017

Trade name Aquasept Inline  
Article number: 28989B

(Contd. of page 5)

- . **10.2 Chemical stability**
- . **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- . **10.3 Possibility of hazardous reactions** No dangerous reactions known
- . **10.4 Conditions to avoid** Avoid sources of ignition.
- . **10.5 Incompatible materials:**  
Oxidizers  
Acids  
Alkali  
Other chlorine agents  
Oils/fats
- . **10.6 Hazardous decomposition products:**  
Fire can cause release of :  
Carbon monoxide (CO)  
Chlorine gas (Cl<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)

### SECTION 11: Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity**  
Harmful if swallowed.
- . **LD/LC50 values that are relevant for classification:**  
Oral LD50 490 mg/kg (rat)
- . **Primary irritant effect:**
- . **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- . **Serious eye damage/irritation**  
Causes serious eye irritation.
- . **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- . **Sensitisation** Non-sensitizing.
- . **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.
- . **STOT-single exposure**  
May cause respiratory irritation.
- . **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.

### SECTION 12: Ecological information

- . **12.1 Toxicity**
- . **Aquatic toxicity:**  
LC50 (96 h) 0.24 mg/L (Salmo gairdneri) (EPA OTS 797.1400)  
EC50 (48 h) 0.21 mg/L (daphnia magna)
- . **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:** Very toxic for fish

(Contd. on page 7)

## Safety data sheet

acc. to 1907/2006/EC, Article 31 (REACH), 1272/2008/EC (CLP)

Printing date 30.08.2017

Version number 1

Revision: 30.08.2017

Trade name Aquasept Inline  
Article number: 28989B

(Contd. of page 6)

- . **Additional ecological information:**
- . **General notes:**
  - Do not allow product to reach ground water, water bodies or sewage system.
  - Danger to drinking water if even small quantities leak into soil.
  - Also poisonous for fish and plankton in water bodies.
  - Very toxic for 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.

### SECTION 13: Disposal considerations

- . **13.1 Waste treatment methods**
- . **Recommendation**
  - Must not be disposed of together with household garbage. Do not allow product to reach sewage system in concentrated form.
  - Must be specially treated in adherence to official regulations.
- . **Uncleaned packaging:**
- . **Recommendation:**
  - Dispose of packaging according to regulations on the disposal of packagings.
  - Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
  - Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

### \* SECTION 14: Transport information

- . **14.1 UN-Number**
- . **ADR, IMDG, IATA** UN2468
- . **14.2 UN proper shipping name**
- . **ADR** 2468 TRICHLOROISOCYANURIC ACID, DRY, ENVIRONMENTALLY HAZARDOUS
- . **IMDG** TRICHLOROISOCYANURIC ACID, DRY, MARINE POLLUTANT
- . **IATA** TRICHLOROISOCYANURIC ACID, DRY
- . **14.3 Transport hazard class(es)**

. **ADR**



- . **Class** 5.1 (O2) Oxidising substances.
- . **Label** 5.1

. **IMDG**



- . **Class** 5.1 Oxidising substances.

(Contd. on page 8)

## Safety data sheet

acc. to 1907/2006/EC, Article 31 (REACH), 1272/2008/EC (CLP)


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Version number 1

Revision: 30.08.2017

Trade name Aquasept Inline  
Article number: 28989B

(Contd. of page 7)

. Label	5.1
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. IATA	
	
. Class	5.1 Oxidising substances.
. Label	5.1
. 14.4 Packing group	
. ADR, IMDG, IATA	II
. 14.5 Environmental hazards:	Environmentally hazardous substance, solid; Marine Pollutant
. Marine pollutant:	Symbol (fish and tree)
. Special marking (ADR):	Symbol (fish and tree)
. 14.6 Special precautions for user	Warning: Oxidising substances.
. Kemler Number:	50
. EMS Number:	5.1-05
. Stowage Category	A
. Handling Code	H1 Keep as dry as reasonably practicable
. 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
. Transport/Additional information:	
-----	
. ADR	
. Limited quantities (LQ)	1 kg
. Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
. Transport category	2
. Tunnel restriction code	E
-----	
. IMDG	
. Limited quantities (LQ)	1 kg
. Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
. UN "Model Regulation":	UN 2468 TRICHLOROISOCYANURIC ACID, DRY, 5.1, II, ENVIRONMENTALLY HAZARDOUS

### SECTION 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 Substance is not listed.

. Seveso category

P8 OXIDISING LIQUIDS AND SOLIDS

E1 Hazardous to the Aquatic Environment

. Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

. Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

(Contd. on page 9)



## Safety data sheet

acc. to 1907/2006/EC, Article 31 (REACH), 1272/2008/EC (CLP)

Printing date 30.08.2017

Version number 1

Revision: 30.08.2017

Trade name Aquasept Inline  
Article number: 28989B

(Contd. of page 8)

. **National regulations**

. **Information about limitation of use:** Employment restrictions concerning young persons must be observed.

. **Other regulations, limitations and prohibitive regulations**

The general dust exposure limit of 3 mg/m<sup>3</sup>, measured as alveolic part has to be observed (German TRGS 900, 2012).

UVV "Protection against harmful mineral dust"(VBG 119) (German regulation)

. **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. **Department issuing data specification sheet:** Product Safety and Regulatory Affairs

. **Contact:** sdb@anti-germ.de

. **Abbreviations and acronyms:**

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

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

Ox. Sol. 2: Oxidizing solids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

. **Sources:** source ECHA: European Chemicals Agency, <http://echa.europa.eu/>

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