

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.07.2026

Version number 16 (replaces version 15)

Revision: 28.07.2026

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

• 1.1 Product identifier

• Trade name: Algicide Winteriser

• Article number: 0702

• UFI: KY45-77C1-DN0X-HEFE

• 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

Main group 1: Disinfectants and general biocidal products

Product type 2: Disinfectants and algaecides not intended for direct application to humans or animals.

• 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier:

Chemoform AG

Bahnhofstr. 68, D-73240 Wendlingen

Tel: +49 7024 4048-0, Fax: +49 7024 4048-2800, E-Mail: info@chemoform.com

• Further information obtainable from: datenblatt@chemoform.com

• 1.4 Emergency telephone number: Vergiftungs-Informationen-Zentrale Freiburg, Tel. +49 761 19240 (24h)

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture

• Classification according to Regulation (EC) No 1272/2008

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

• Additional information: The full text of the classification and labelling elements mentioned is given in Section 16.

• 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



GHS05

GHS09

• Signal word Danger

• Hazard-determining components of labelling:

quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

• Hazard statements

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

• Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

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

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• vPvB: Not applicable

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SECTION 3: Composition/information on ingredients

• 3.2 Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

CAS: 68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 20%
 EINECS: 270-325-2 ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ⚠ Acute Tox. 4, H302

• SVHC

• biocidal active substances

68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides: 200 mg/g

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

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• **General information:**

Personal protection for the First Aider.

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:**

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

Immediately wash with water and soap and rinse thoroughly.

• **After eye contact:**

Protect unharmed eye.

Call a doctor immediately.

Rinse opened eye for several minutes under running water. Then consult a doctor.

• **After swallowing:**

Rinse out mouth and then drink plenty of water.

A person vomiting while laying on their back should be turned onto their side.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

• **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.

SECTION 5: Firefighting measures

• 5.1 Extinguishing media

• **Suitable extinguishing agents:**

Fire-extinguishing powder

Foam

Carbon dioxide

Use fire extinguishing methods suitable to surrounding conditions.

• **For safety reasons unsuitable extinguishing agents:** Water with full jet

• 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Hydrogen cyanide (HCN)

Nitrogen oxides (NOx)

Hydrogen chloride (HCl)

Carbon monoxide (CO)

• 5.3 Advice for firefighters

• **Protective equipment:** Wear self-contained respiratory protective device.

• **Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective clothing.
Particular danger of slipping on leaked/spilled product.
Wear protective equipment. Keep unprotected persons away.

- **6.2 Environmental precautions:**

Prevent from spreading (e.g. by damming-in or oil barriers).
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:**

Clean the affected area carefully; suitable cleaners are:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose 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 disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

- **Information about fire - and explosion protection:** The product is not flammable.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- Requirements to be met by storerooms and receptacles:
Store only in the original receptacle.
Prevent any seepage into the ground.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions:
Protect from frost.
Keep container tightly sealed.
- Storage class: 8 B

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **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**

- **Appropriate engineering controls** No further data; see section 7.

- **Individual protection measures, such as personal protective equipment**

- General protective and hygienic measures:
Use skin protection cream for skin protection.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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- Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- 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.

- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR
- Not suitable are gloves made of the following materials: Leather gloves
- Eye/face protection



Tightly sealed goggles

- Body protection:

Protective work clothing

Apron

Full head, face and neck protection

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

• General Information

• Physical state	Liquid
• Colour:	Blue
• Odour:	Characteristic
• Odour threshold:	Not determined
• Melting point/freezing point:	Undetermined
• Boiling point or initial boiling point and boiling range	100 °C
• Flammability	Not applicable
• Lower and upper explosion limit	
• Lower:	Not determined
• Upper:	Not determined
• Flash point:	Not applicable
• Decomposition temperature:	Not determined
• pH at 20 °C	8,1
• Viscosity:	
• Kinematic viscosity	Not determined
• Dynamic:	Not determined
• Solubility	
• water:	Fully miscible.
• Partition coefficient n-octanol/water (log value)	Not determined
• Vapour pressure:	Not determined
• Density and/or relative density	
• Density:	Not determined
• Relative density	Not determined
• Vapour density	Not determined

• 9.2 Other information

• Appearance:

- Form: Fluid

• Important information on protection of health and environment, and on safety.

- Ignition temperature: Product is not selfigniting.
- Explosive properties: Product does not present an explosion hazard.

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- Solvent content:
- Solids content: 0,0 %
- **Change in condition**
- Evaporation rate Not determined
- **Information with regard to physical hazard classes**
- Explosives Void
- Flammable gases Void
- Aerosols Void
- Oxidising gases Void
- Gases under pressure Void
- Flammable liquids Void
- Flammable solids Void
- Self-reactive substances and mixtures Void
- Pyrophoric liquids Void
- Pyrophoric solids Void
- Self-heating substances and mixtures Void
- Substances and mixtures, which emit flammable gases in contact with water Void
- Oxidising liquids Void
- Oxidising solids Void
- Organic peroxides Void
- Corrosive to metals Void
- Desensitised explosives Void

SECTION 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**
 Reacts with strong acids.
 Reacts with oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
 Hydrogen chloride (HCl)
 Hydrogen cyanide (prussic acid)
 Carbon monoxide and carbon dioxide
 Nitrogen oxides (NOx)

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**

68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
 Oral LD50 600 mg/kg (rat)
- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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** 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.

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- **11.2 Information on other hazards**
- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
Toxic to aquatic life with long lasting effects.
68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
EC50 0,03 mg/l (algae)
0,015 mg/l (daphnia)
IC50 0,02 mg/l (algae)
LC50 0,85 mg/l (Oncorhynchus mykiss (Regenbogenforelle))
- **12.2 Persistence and degradability**
The single components are easily eliminable from water.
The contained surfactants are easily biodegradable
- **12.3 Bioaccumulative potential**
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Very toxic for fish
- **Behaviour in sewage processing plants:**
68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
EC10 10 mg/l (Activated sludge) (OECD 209)
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
16 05 08* discarded organic chemicals consisting of or containing hazardous substances
- **Uncleaned packaging:**
- **Recommendation:** Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN1760

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• 14.2 UN proper shipping name

• ADR

1760 CORROSIVE LIQUID, N.O.S. (quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides), ENVIRONMENTALLY HAZARDOUS

• IMDG

CORROSIVE LIQUID, N.O.S. (quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides), MARINE POLLUTANT

• IATA

CORROSIVE LIQUID, N.O.S. (quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)

• 14.3 Transport hazard class(es)

• ADR, IMDG



• Class

8 Corrosive substances.

• Label

8

• IATA



• Class

8 Corrosive substances.

• Label

8

• 14.4 Packing group

• ADR, IMDG, IATA

III

• 14.5 Environmental hazards:

• Marine pollutant:

Yes

Symbol (fish and tree)

Symbol (fish and tree)

• Special marking (ADR):

Warning: Corrosive substances.

• 14.6 Special precautions for user

• Hazard identification number (Kemler code):

80

• EMS Number:

F-A,S-B

• Stowage Category

A

• Stowage Code

SW2 Clear of living quarters.

• 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

• Transport/Additional information:

• ADR

• Excepted quantities (EQ):

E1

• Limited quantities (LQ)

5L

• Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

• Transport category

3

• Tunnel restriction code

E

• IMDG

• Limited quantities (LQ)

5L

• Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

• UN "Model Regulation":

UN 1760 CORROSIVE LIQUID, N.O.S. (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES), 8, III, ENVIRONMENTALLY HAZARDOUS

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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 None of the ingredients is listed.
- Seveso category E1 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

• 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.

• National regulations:

• Breakdown regulations:

Annex I - No.: 9a

Quantity threshold for operating areas according to §1 para. 1

- Sentence 1: 100000 kg

- Sentence 2: 200000 kg

Scope: environmentally hazardous substances (hazard statement R 50 or R 50/53)

• Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

• Other regulations, limitations and prohibitive regulations

This product is a biocidal product within the meaning of Regulation EU/528/2012. The ChemBiozidMeldeV must also be observed.

TRGS 200: Classification and labelling of substances, preparations and articles.

TRGS 201: Labelling of waste during handling.

TRGS 400: Determination and assessment of hazards from hazardous substances at the workplace: Requirements.

TRGS 440: Determination and assessment of hazards from hazardous substances at the workplace: Determination of hazardous substances and methods for testing substitutes.

TRGS 500: Protective measures: Minimum standards.

TRGS 555: Operating instructions and instruction according to § 20 GefStoffV.

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

SECTION 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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

• Relevant phrases

H302 Harmful if swallowed.

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.

• Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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• 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 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

• Sources None

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