



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) 2020/878)

Antigreen

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

1.1. Product identifier

Product name	Antigreen
Product code	None.
Unique formula identifier (UFI)	FV90-0038-C006-YNJP

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

Use of the Substance/Mixture	Algicide
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1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification	CHEMIA BRUGG AG Aarauerstrasse 51 CH-5200 Brugg Telefon: +41 (0) 56 460 62 60 (08-17 Uhr) E-Mail: info@chemia.ch
	Ansprechpartner: Tobias Schild Telefon: +41 (0) 56 460 62 06 E-Mail: tobias.schild@chemia.ch www.chemia.ch

1.4. Emergency telephone number	145 (Tox Info Suisse)
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Revision date	16.11.2023
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Version	23.11 (Previous versions: 1.0)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 Acute toxicity, oral, Cat. 4, H302
Hazardous to the aquatic environment, acute, Cat. 1, H400
Hazardous to the aquatic environment, chronic, Cat. 1, H410

Additional information For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements



Signal Word Warning

Hazard Statements H302: Harmful if swallowed.
H410: Very 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.
P264: Wash skin thoroughly after handling.
P273: Avoid release to the environment.
P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P501: Return contents / partially emptied and empty containers to the point of sale or take them to a collection point for hazardous waste.
P310: Immediately call a POISON CENTER or doctor/physician.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.

Supplemental information None.

Product identifier Epichlorohydrin-dimethylamine-copolymer, CAS-No. 25988-97-0

Packaging Tactile warning of danger (EN/ISO 11683).

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Components	Weight %	CLP Classification	Product identifier
Epichlorohydrin-dimethylamine-copolymer	25%	Acute Tox. 4 H302, Aquatic Acute 1 H400, Aquatic Chronic 1 H410	CAS-No.: 25988-97-0

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. Consult a physician for severe cases.
Skin contact	Remove contaminated clothes Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If easy to do, remove contact lens, if worn. Protect unharmed eye. If eye irritation persists, consult a specialist.
Ingestion	Rinse mouth. Drink 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention.

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 Show this safety data sheet to the attending physician. Show this safety data sheet to the attending physician.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry extinguishing agent or carbon dioxide.

Unsuitable extinguishing media High volume water jet.

5.2. Special hazards arising from the substance or mixture	The product itself does not burn. During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit. Standard procedure for chemical fires. In the event of fire and/or explosion do not breathe fumes.
Specific methods	Use extinguishing agents individually or in combination. Pipe operators and support are to be equipped with respiratory protection. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water mist may be used to cool closed containers. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours/dust. Evacuate personnel to safe areas.
For emergency responders	Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus. Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours/dust. Evacuate personnel to safe areas.

6.2. Environmental precautions Prevent product from entering drains. Advise water authority if spillage has entered water course or drainage system. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4. Reference to other sections See sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Wear personal protective equipment. Use only with adequate ventilation. Entwicklung von Dämpfen/Aerosolen vermeiden. Avoid contact with skin and eyes. Do not breathe vapours/dust. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a cool, well-ventilated place. Store in original container. Store in a place accessible by authorized

persons only. Storage class 12.

7.3. Specific end use(s) Use only in accordance with our recommendations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) No data is available on the product itself.

8.2. Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. General industrial hygiene practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke.

Personal protection equipment

Respiratory protection In case of good ventilation no personal respiratory protective equipment required. In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection The selected protective gloves have to satisfy the specifications of Regulation (EU) No. 2016/425 and the standard EN 374 derived from it. Gloves made of Nitril. Minimum layer thickness. ≥ 0.38 mm Break through time: ≥ 480 min. Gloves made of Butyl. Minimum layer thickness. ≥ 0.50 mm Break through time: ≥ 480 min.

Eye protection Safety glasses with side-shields conforming to EN166.

Skin and body protection Wear suitable protective clothing Wear suitable protective clothing.

Thermal hazards No special measures required.

Environmental exposure controls Prevent product from entering surface water or sewage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Blue.
Odour	Characteristic.
Melting point/ freezing point:	Not determined.
Boiling point or initial boiling point / range:	>100 °C
Flammability:	Not flammable in contact with air
Lower and upper explosion limit:	No data available
Flash point:	does not ignite
Auto-ignition temperature:	not self-igniting

Decomposition temperature:	Not determined.
pH:	7.5 (20°C)
Kinematic viscosity:	Not determined.
Solubility:	completely soluble (Water)
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density:	1.04 g/cm ³
Relative vapour density:	Not determined.
Particle characteristics:	Not applicable.

9.2. Other information

9.2.1 Information with regard to physical hazard classes	No information available.
9.2.2 Other safety characteristics	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	No hazards to be specially mentioned.
10.2. Chemical stability	No decomposition if used as directed.
10.3. Possibility of hazardous reactions	None known.
10.4. Conditions to avoid	None known.
10.5. Incompatible materials	According to experience not expected.
10.6. Hazardous decomposition products	None under normal use.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	Harmful if swallowed. LD50/dermal/rabbit = 2000 mg/kg. LD50/oral/rat = 1672 mg/kg.
Skin corrosion/irritation	Not classified based on the information available.
Serious eye damage/eye irritation	Not classified based on the information available.
Respiratory / Skin Sensitisation	Not classified based on the information available.
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Germ cell mutagenicity	Not classified as a germ cell mutagen (mutagenic).

Reproductive toxicity	Not classified as toxic to reproduction.
Specific target organ toxicity (single exposure)	Not classified based on the information available.
Specific target organ toxicity (repeated exposure)	Not classified based on the information available.
Aspiration hazard	Not classified based on the information available.
Human experience	No data available.

11.2. Information on other hazards

Endocrine disrupting properties	The substance / mixture does not contain any components which, according to REACH Article 57 (f) or the delegated regulation (EU) 2017/2100 of the commission or the delegated regulation (EU) 2018/605 of the commission in amounts of 0, Have 1% or more endocrine disrupting properties.
Other information	No data available.

SECTION 12: Ecological information

12.1. Toxicity	Very toxic to aquatic life with long lasting effects. No data is available on the product itself.
12.2. Persistence and degradability	No data is available on the product itself.
12.3. Bioaccumulative potential	No data is available on the product itself. The product is toxic to algae.
12.4. Mobility in soil	No data is available on the product itself.
12.5. Results of PBT and vPvB assessment	This substance / mixture does not contain any components in concentrations of 0.1% or higher that are either classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).
12.6. Endocrine disrupting properties	The substance / mixture does not contain any components which, according to REACH Article 57 (f) or the delegated regulation (EU) 2017/2100 of the commission or the delegated regulation (EU) 2018/605 of the commission in amounts of 0, Have 1% or more endocrine disrupting properties.
12.7. Other adverse effects	No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Product residues are in compliance with the regulation on the avoidance and the Disposal of waste (waste ordinance, VVEA, SR 814.600), the ordinance on the movement of waste (VeVA, SR 814.610) and the UEVK ordinance on lists for disposal with waste (LVA, SR 814.610.1). chemicals in keep the original containers. Do not mix with other waste.
Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport information

14.1. UN number or ID number	UN 3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. Transport hazard class(es)	9
14.4. Packing group	III
14.5. Environmental hazards	Marine pollutant: Yes. Environmentally hazardous: Yes
14.6. Special precautions for user	Not applicable.
14.7. Maritime transport in bulk according to IMO instruments	Not applicable.

UN Model Regulations

ADR/RID	UN 3082. Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.. Class 9. Packing group III. ADR/RID-Labels 9+ENV. Environmentally hazardous: Yes Classification code M6. Hazard identification no. 90. Limited quantity 5 L. Excepted quantity E1. Transport category 3. Tunnel restriction code (-).
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IMDG	<p>UN 3082. Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.. Class 9. Packing group III. IMDG-Labels 9+ENV. Limited quantity 5 L. Excepted quantity E1. EmS F-A, S-F. Marine pollutant: Yes.</p>
IATA	<p>UN 3082. Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.. Class 9. Packing group III. IATA label 9+ENV. Packing instruction (passenger aircraft): 964 (450 L). Packing instruction (LQ): Y964 (30 kg G). Packing instruction (cargo aircraft): 964 (450 L).</p>
Inland navigation ADN	<p>UN 3082. Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.. Class 9. Packing group III. ADN labels 9+ENV. Classification code M6. Limited quantity 5 L. Excepted quantity E1.</p>
Further Information	None.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory Information	<p>CPID (CH): 605451-70 Water contaminating class (WGK Germany) = 3. Storage class 12. VOC (CH) = 0%</p>
Epichlorohydrin-dimethylamine-copolymer (CAS 25988-97-0)	859 Product type 2, 11 (Polymer)
EU - Biocides (1062/2014) - Annex II Part 1 - Supported Substances	
EU - Biocides (2007/565/EC) - Substances and Product-Types Not to Be Included in Annexes I, IA and IB to Directive 98/8/EC	Product type: 12 (polymer, listed under Polymer of N-Methylmethanamine (Einecs 204-697-4 with (chloromethyl)oxirane (Einecs 203-439-8)/Polymeric quaternary ammonium chloride)
Biocidal product	<p>CHZN5236 Active ingredient: Polymer of N-Methylmethanamine(EINECS 204-697-4 with(chloromethyl)oxirane(EINECS 203-439-8) / Polymeric quaternary ammonium chloride, 25988-97-0: 25g/100g.</p>

15.2. Chemical safety assessment No chemical safety assessment has been carried out for this substance/product.

SECTION 16: Other information

Revision Note	This data sheet contains changes from the previous version in section(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16.
Key or legend to abbreviations and acronyms	ACGIH: American Conference of Industrial Hygienists CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS) DNEL: Derived No Effect Level . EWC: European Waste catalogue code LOAEC: Lowest Observed Adverse Effect Concentration MAK: Occupational exposure limit. NOAEC No Observed Adverse Effect Concentration NOAEL: No observed adverse effect level . OECD: Organisation for Economic Co-operation and Development OEL: Occupational Exposure Limits for Hazardous Agents in the Workplace OSHA: Occupational Safety and Health Administration (USA) PEC: Predicted exposure concentration . PEL: Permissible Exposure Limit PNEC: Predicted No Effect Concentration . STEL: Short Term Exposure Limit TLV: Threshold limit value TWA: time weighted average VeVA: Ordinance on the Treatment of Waste (SR 814.610) VOC: Volatile organic compounds (VOC) content WEL: workplace exposure limit
Classification procedure	Classification according to Regulation (EC) No. 1272/2008.
Full text of phrases referred to under sections 2 and 3	H302: Harmful if swallowed. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.
Further information	Take notice of the directions of use on the label.
Instructions for use	Use only in accordance with our recommendations.
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.