

Safety Data Sheet

Section 01 - Identification

Product Identifier Algysolve 2250

Other Means of Identification None

Product Use and Restrictions on

Use

Algaecide for swimming pools

Initial Supplier Identifier ClearTech Industries Inc.

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Section 02 - Hazard Identification

GHS-Classification

Acute Toxicity-Oral Category 4
Skin Corrosion/Irritation Category 2
Eye Damage/Irritation Category 2

Physical Hazards

No known physical hazards.

Warning

Hazard Statements

H302 – Harmful if swallowed.

H315 – Causes skin irritation.

H319 - Causes serious eye irritation.

Pictograms



Precautionary Statements

P405 – Store locked up.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P264 - Wash hands thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P311 – Call a POISON CENTER or doctor/physician.

P301 + P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth.

P280 – Wear protective gloves, protective clothing, eye protection, and face protection.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P362 + P364 – Take off contaminated clothing and wash before reuse.

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 all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Poly [oxyethylene (dimethyliminio) ethylene (dimethyliminio) ethylene dichloride]	31075-24-8	20-30%	L5T 2N1
Copper Sulphate	7758-98-7	5-15%	
Water	7732-18-5	55-75%	

Section 04 - First Aid Measures

If symptoms are experienced, remove victim to fresh air. Give artificial respiration only if Inhalation

breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention if

difficulties persist.

Remove contaminated clothing. Wash affected area with soap and water. Seek medical **Skin Contact / Absorption**

attention if irritation occurs or persists.

Eve Contact Contact lenses should never be worn when working with this product. Flush immediately

with water for at least 30 minutes. Forcibly hold eyelids apart to ensure complete irrigation

of eye tissue. If irritation persists, seek medical attention.

Ingestion If swallowed, promptly drink a large quantity of milk, egg whites, gelatin solution, or large

quantities of water. Immediately call POISON CENTER or a physician.

Additional Information Not Available

Section 05 - Fire Fighting Measures

Dry chemical, foam, carbon dioxide or water can be used for surrounding fire. Suitable Extinguishing Media

Unsuitable Extinguishing Media Not Available

Specific Hazards Arising From the Oxides of carbon

Chemical

Not Available

Precautions for Fire-Fighters

Further Information

Special Protective Equipment and Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Section 06 - Accidental Release Measures

Equipment / Emergency **Procedures**

Personal Precautions / Protective Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.

Environmental Precautions Prevent material from entering sewers.

Methods and Materials for Containment and Cleaning Up In case of spill, flood areas with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer.

Section 07 - Handling and Storage

hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations

that could lead to harmful exposure.

Conditions for Safe Storage Store in closed containers in cool, dry, well-ventilated area. Store away from

oxidizers.

Incompatibilities Oxidizers

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

 Component
 Regulation
 Type of Listing
 Value

 Copper
 OSHA
 PEL-T-TWA
 1mg/m³

 ACGIH
 TLV-TWA
 1mg/m³

Engineering Control(s)

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and

control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by

exhaust systems.

Other Emergency shower and eyewash must be available and tested in accordance with

regulations and be in close proximity.

Protective Equipment

Eyes/Face Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when

product is handled. Contact lenses should not be worn; they may contribute to severe eye

injury.

Hand Protection Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all

times. Wash contaminated clothing and dry thoroughly before reuse.

Skin and Body ProtectionBody suite, aprons, and/or coveralls of chemical resistant material should be worn at all

times. Wash contaminated clothing and dry thoroughly before reuse.

Impervious boots of chemically resistant material should be worn at all times. No special

footwear is required other than what is mandated at place of work.

Respiratory ProtectionUse an approved respirator with appropriate dust/mist cartridges.

Thermal Hazards Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State Liquid

Colour Blue

Odour Mild sweet odor

Odour Threshold Not Available

Property

pH 6.6-7.6 (10% solution)

Melting Point/Freezing Point <0°C

Initial Boiling Point and Boiling

Range

>100°C

Flash Point >100°C

Evaporation Rate Not Available

Flammability Normally non-flammable, however product at high temperatures may become

combustible.

Upper Flammable Limit Not Applicable

Lower Flammable Limit Not Applicable

Vapour Pressure (mm Hg, 20°C) Not Available

Vapour Density (Air=1) 1.13-1.16

Relative Density Not Available

Solubility(ies) Moderately soluble in water

Partition Coefficient: n-

octanol/water

Not Available

Auto-ignition Temperature Not Applicable

Decomposition Temperature Not Available

Viscosity Not Available

Explosive Properties Not Available

Specific Gravity (Water=1) 1.095-1.105

% Volatiles by Volume 30-50%

Formula Not Available

Molecular Weight Not Available

Section 10 - Stability and Reactivity

Reactivity Not Available

Stability Stable under normal conditions.

Possibility of Hazardous

Reactions

Not Available

Conditions to Avoid Not Available
Incompatible Materials Oxidizers

Hazardous Decomposition

Products

Oxides of carbon

Section 11 - Toxicological Information

Acute Toxicity Estimate

Algysolve 2250 317 mg/kg 3300 mg/kg 8.21 mg/L

This product has been classified in accordance with the Hazardous Products Regulations using ATE formula documented in the GHS standard.

Chronic Toxicity – Carcinogenicity

Component IARC

Algysolve 2250

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by

IARC, NTP, or OSHA, as a carcinogen.

Skin Corrosion/Irritation Repeated or prolonged skin contact may cause irritation and superficial burns.

Ingestion May be harmful if swallowed.

Inhalation May cause irritation of respiratory tract.

Serious Eye Damage/Irritation Expected to be an irritant

Respiratory or Skin Sensitization Repeated contact with copper sulphate may cause sensitization in some individuals.

Germ Cell MutagenicityLaboratory experiments with copper sulphate have resulted in mutagenic effects.

Reproductive ToxicityThe milk of female vineyard workers, who were exposed to copper sulfate and a variety

of other pesticides, contained 6.2 times as much copper as the milk of milkmaids who did

equally hard work but not exposed to pesticides.

STOT-Single Exposure May cause irritation of respiratory tract.

STOT-Repeated ExposureSevere exposure or chronic exposure by ingestion or inhalation of copper sulphate may

induce severe gastroenteric distress (vomiting, gastroenteric pain, local corrosion, and hemorrhages), a metallic taste in the mouth, prostration, anuria, hematuria, anemia, an increase in white blood cells, coma, respiration difficulties, and circulatory problems.

May cause liver and kidney damage.

Aspiration Hazard Chronic inhalation of copper sulphate may result in anemia.

0.005mg/L

Synergistic Materials Not Available

Section 12 - Ecological Information

Ecotoxicity Component **Toxicity to Algae Toxicity to Fish Toxicity to Daphnia and** Other Aquatic Invertebrates LC₅₀(Invertebrate, 96hr): Poly [oxyethylene Not Available LC₅₀(Oncorrhynchus mykiss, (dimethyliminio) ethylene 96hr): 0.047mg/L 0.37mg/L (dimethyliminio) ethylene dichloride1 Copper Sulfate EC₅₀(Thalassiosire LC₅₀ (Pimephales promelas, EC₅₀ (Daphnia magna, 48hr): pseudonana, 72hr): 96hr): 0.0028mg/L 0.0469ma/L

Biodegradability Not Available

BioaccumulationBioaccumulation of copper sulphate may occur along the food chain, for example in fish.

Mobility Copper sulphate can potentially percolate into soil. Will dissolve in wet conditions leaving

trace amount of elemental copper ions in surrounding soil.

Other Adverse Effects Not Available

Section 13 – Disposal Considerations

Waste From Residues/Unused

Products

Dispose in accordance with all federal, provincial, and/or local regulations including the

Canadian Environmental Protection Act.

Contaminated Packaging Dispose in accordance with all federal, provincial, and/or local regulations including the

Canadian Environmental Protection Act.

Section 14 – Transport Information

UN Number Not Available

UN Proper Shipping Name Not Available

Transport Hazard Class(es) Not Available

Packaging Group Not Available

Environmental Hazards Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special Precautions Not Available

Transport in Bulk Not Available

TDG

Other Secure containers (full and/or empty) with suitable hold down devises during shipment and

ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 - Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 – Other Information

Preparation Date

August 17, 2015

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution[®] initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

References:

- 1) CHEMINFO
- 2) eChemPortal
- 3) TOXNET4) Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA

ClearTech Industries Inc. - Locations

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