



SAFETY DATA SHEET

Algaecide

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

Product name Algaecide

Chemical name Elemental Copper (from copper-triethanolamine complex); Triethanolamine Complex;
Elemental Copper

Synonyms; trade names FROG BAM®

EPA Registration Number 53735-9

Recommended use of the chemical and restrictions on use

Application Swimming pool algaecide

Details of the supplier of the safety data sheet

Supplier King Technology, Inc.
6000 Clearwater Dr.
Minnetonka, MN 55343
United States
1+ (952) 933-6118
sdsinfo@kingtechnology.com

Emergency telephone number

Emergency telephone CHEMTREC 800-424-9300 (24 hours)

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Acute Tox. 3 - H331 Skin Irrit. 2 - H315 Eye Irrit. 2B - H320 Skin Sens. 1 - H317

Environmental hazards Not Classified

Label elements

Hazard symbols



Signal word Danger

Hazard statements H331 Toxic if inhaled.
H315+H320 Causes skin and eye irritation.
H317 May cause an allergic skin reaction.

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Precautionary statements	P261 Avoid breathing vapor/ spray. P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 If on skin: Wash with plenty of water. 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. P311 Call a poison center/ doctor. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.
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Contains Copper triethanolamine complex

3. Composition/information on ingredients

Mixtures

Copper triethanolamine complex	8 - 12%
CAS number: 82027-59-6	
Classification Acute Tox. 4 - H302 Acute Tox. 2 - H330 Skin Irrit. 2 - H315 Eye Irrit. 2B - H320 Skin Sens. 1 - H317	

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation	Remove affected person from source of contamination. Move affected person to fresh air at once. Keep affected person warm and at rest. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.
Ingestion	Get medical attention. Give a few small glasses of water or milk to drink. Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person.
Skin Contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
Eye contact	Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.

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Most important symptoms and effects, both acute and delayed

General information Causes skin and eye irritation. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Harmful if swallowed.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media None known.

Special hazards arising from the substance or mixture

Hazardous combustion products Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrous gases (NO_x). Metal oxide(s).

Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Methods and material for containment and cleaning up

Methods for cleaning up Approach the spillage from upwind. Stop leak if safe to do so. Move containers from spillage area. Prevent entry into sewers, water courses, basements or confined areas. Absorb spillage with non-combustible, absorbent material. Collect and dispose of spillage as indicated in Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Use only outdoors or in a well-ventilated area. Avoid breathing gas, fume, vapours or spray. Avoid contact with skin, eyes and clothing. Wear protective clothing, gloves, eye and face protection.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash after use and before eating, smoking and using the toilet. Take off contaminated clothing and wash it before reuse.

Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed, in a cool, well ventilated place. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight.

8. Exposure controls/Personal protection

Exposure controls

Appropriate engineering controls Provide adequate general and local exhaust ventilation. Provide eyewash station and safety shower.

Eye/face protection Wear tight-fitting, chemical splash goggles or face shield.

Hand protection Avoid skin contact. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection Wear appropriate clothing to prevent repeated or prolonged skin contact.

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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid.
Color	Dark blue
Odor	Odorless.
Odor threshold	Not applicable.
pH	8.4
Melting point	Not applicable.
Initial boiling point and range	Not applicable.
Flash point	Not applicable.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	1.2 @ 20°C
Bulk density	8.84 lbs/gal
Solubility(ies)	Soluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available. 200°C/392°F
Viscosity	No information available.

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
Conditions to avoid	Do not use where pH of water is below 6. Copper chelate may dissociate and release copper ions, which could be precipitated as insoluble copper salts. Should not be applied when water temperature is below 60 F. Protect from freezing.
Materials to avoid	Oxidizing agents. Acids. Metals.

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Hazardous decomposition products None known.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Summary Based on available data the classification criteria are not met.

ATE oral (mg/kg) 15,000.0

Acute toxicity - dermal

Summary Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Summary Toxic if inhaled.

ATE inhalation (vapours mg/l) 3.0

Skin corrosion/irritation

Summary Causes skin irritation.

Serious eye damage/irritation

Summary Causes serious eye irritation.

Respiratory sensitization

Summary Based on available data the classification criteria are not met.

Skin sensitization

Summary May cause an allergic skin reaction.

Germ cell mutagenicity

Summary Based on available data the classification criteria are not met.

Carcinogenicity

Summary Based on available data the classification criteria are not met.

IARC carcinogenicity Not listed.

NTP carcinogenicity Not listed.

OSHA Carcinogenicity Not listed.

Reproductive toxicity

Summary Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

Summary Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

Summary Based on available data the classification criteria are not met.

Aspiration hazard

Summary Based on available data the classification criteria are not met.

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12. Ecological information

Toxicity Data is not available on the product mixture.

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bio-Accumulative Potential No data available.

Partition coefficient No information available.

13. Disposal considerations

Waste treatment methods

General information If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Do not reuse container. Rinse thoroughly before discarding in trash.

14. Transport information

General In small packages, such as most consumer sizes, the products may be eligible for limited quantity exceptions. Details depend on package and mode of transport. If shipped in larger quantities, product is fully regulated as defined below.

UN Number

UN No. (DOT) UN2810

UN proper shipping name

Proper shipping name (DOT) TOXIC, LIQUIDS, ORGANIC, N.O.S. (CONTAINS Copper triethanolamine complex)

Transport hazard class(es)

DOT hazard class 6.1

DOT hazard label 6.1

DOT transport labels



Packing group

DOT packing group III

15. Regulatory information

United States FIFRA - Pesticide Labeling This product is a US EPA FIFRA registered pesticide (EPA Reg. No.: 53735-9) and is subject to certain labeling requirements under federal pesticide law. These requirements may differ from the classification criteria and hazard information required for an OSHA GHS SDS. The following is the hazard information as required on the FIFRA label:

Signal Word WARNING

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Hazard Statements

May be fatal if inhaled. Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Do not breathe vapor or spray mist. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Keep out of reach of children.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Not listed.

Inventories

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

Not listed.

16. Other information

Revision date	10/24/2022
Revision No.	08
SDS No.	4829
Hazard statements in full	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H320 Causes eye irritation. H330 Fatal if inhaled. H331 Toxic if inhaled.

The information provided on the SDS is correct to the best of our knowledge, information, and belief at the date of this publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release, and is not to be considered as 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 material or in any process, unless specified in the text.