

**Product Name:** FROG® Bam  
**Revision Date:** May 20, 2015  
**Supersedes:** Rev 4, 10/14/2011

**Revision: 5**

## 1. Identification

**Product Identifier:** FROG® Bam

**Other Means of Identification:** Elemental Copper (from copper-triethanolamine complex)  
Triethanolamine Complex  
Elemental Copper

**Recommended Use:** Swimming pool algaecide

**Supplier:** King Technology, Inc  
530 11<sup>th</sup> Ave S, Hopkins, MN 55343, USA  
Phone (952) 933-6118

**EPA Registration Number:** 53735-9

**Emergency Telephone:** Chemtrec (800) 424-9300

## 2. Hazards Identification

**GHS Classification:** Skin Irritation: Category 2  
Eye Irritation: Category 2B  
Acute Toxicity (Inhalation): Category 4  
Single Target Organ Toxicity (Single Exposure): Category 3

**GHS Label Elements:**

– **Signal Word:** WARNING

– **Pictogram:**



– **Hazard Statements:** Causes skin irritation  
Causes eye irritation  
Harmful if swallowed  
May cause respiratory irritation

– **Precautionary Statements:** Avoid breathing fume, gas, mist, vapors, spray.  
Use only outdoors or in a well-ventilated area.  
Wash exposed areas thoroughly after handling.  
Wear protective gloves.  
If on skin: Wash with plenty of water.  
If skin irritation occurs: Get medical attention.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical attention.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
Call a poison center or doctor if you feel unwell.  
Take off contaminated clothing and wash it before reuse.  
Specific treatment (see FIRST AID MEASURES on this Safety Data Sheet).



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Store locked up in a well-ventilated place. Keep container tightly closed. Dispose of contents and container in accordance with local, regional, national, and international regulations.

**Unclassified Hazards:** None

**Percentage of Ingredients with Unknown Toxicity:** Zero

### 3. Composition / Information on Ingredients

Components CAS	Weight %	ACGIH-TLV Data	OSHA (PEL) Data
Copper triethanolamine complex 82027-59-6	3.03	NE	NE

### 4. First-aid Measures

**Eye contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing eye. Call a poison control center or doctor for treatment advice if irritation persists.

**Skin contact:** Remove contaminated clothing. Rinse skin immediately with plenty of soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Inhalation:** Move person to fresh air. 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:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or when going for treatment.

**Most Important Symptoms, Acute and Delayed:** Causes skin and eye irritation. Harmful if swallowed. May cause respiratory irritation.

**Immediate Medical Attention Required:** None needed. If skin or eye irritation occurs, or if you feel unwell, get medical attention.

### 5. Fire-fighting Measures

**Flash Point:** N/A

**Suitable Extinguishing Media:** Use media suitable for surrounding fires.

**Specific Hazards Arising From the Chemical:** None known.



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**Special Protective Equipment and Precautions for Fire-fighters:** Fire fighters should wear self-contained breathing apparatus and full protective clothing.

## 6. Accidental Release Measures

**Personal Precautions:** Using appropriate protective clothing and safety equipment contain spilled material with an absorbent material, such as sweeping compound. Sweep up and dispose as waste in a suitable container.

**Methods for Cleaning Up:** Dispose of according to local, state, and federal regulations.

## 7. Handling and Storage

**Handling:** Do not mix with other chemicals. Do not get in eyes, on skin, or on clothing. Wear eye protection and protective clothing. Wash thoroughly after handling.

**Storage:** Keep this product in original closed container when not in use. Store in clean, dry area below 95°F. Do not contaminate water, food, or feed by storage, disposal, or cleanup equipment. Average shelf life under proper conditions is 2 years.

## 8. Exposure Controls / Personal Protection

**Exposure Limits:** None assigned.

**Appropriate Engineering Controls:** Use in well ventilated areas.

**Personal protective equipment:**  
– **Respiratory protection:** None required for normal use.

– **Hand protection:** Wear rubber gloves when handling this product. Avoid contact with skin.

– **Eye protection:** Wear goggles or safety glasses with side shields when handling this product.

– **Skin and body protection:** Wear rubber gloves when handling this product. Avoid contact with skin.

**Hygiene measures:** Remove and wash contaminated clothing before reuse. Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

## 9. Physical and Chemical Properties

**Appearance:** Dark blue liquid  
**Odor:** Odorless  
**Odor threshold:** Not applicable  
**Melting point / range:** Not applicable  
**Boiling point / range:** Not applicable  
**Flash point:** Not applicable  
**Evaporation rate:** Not available



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**Flammability:** Not available  
**Vapor pressure:** Not applicable  
**Vapor density:** Not applicable  
**Solubility in water:** Soluble  
**Specific gravity:** 1.06 g/mL (8.84 lb/gal)  
**pH:** 9.1  
**Flammability limits:** Not available  
**Partition coefficient:** Not available  
**Auto-ignition temperature:** Not available  
**Decomposition temperature:** Not available  
**Viscosity:** Not available

## 10. Stability and Reactivity

**Reactivity:** This product is not reactive under normal conditions.

**Stability:** This product is stable under normal conditions.

**Possibility of hazardous reactions:** Will not occur under normal conditions.

**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.

**Incompatible materials:** None known

**Hazardous decomposition products:** None known

## 11. Toxicological Information

**Acute toxicity:**  
– **Rat oral LD50:** 1312 mg/kg Slightly toxic if swallowed.  
– **Rabbit dermal LD50:** >2.0 g/kg Considered to be a negligible irritant to skin.  
– **Eye irritation (rabbit):** Considered to be a moderate irritant

**Carcinogenicity:**  
This product is not listed as a carcinogen by IARC.  
This product is not listed as a carcinogen by NTP.  
This product is not listed as a carcinogen by OSHA.

## 12. Ecological Information

No information available

## 13. Disposal Considerations

**Waste disposal:** 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



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cleaning of equipment. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor.

**Empty container:** Do no reuse container. Rinse thoroughly before discarding in trash.

## 14. Transportation Information

Not regulated

## 15. Regulatory Information

**EPA FIFRA Information:** This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**WARNING**  
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.

**USA:**

- **SARA (311, 312) hazard class:** This product or its components are not listed.
- **CERCLA** This product or its components are not listed.
- **TSCA** This product or its components are listed or are not required to be listed.
- **OSHA** Product is hazardous by definition of the Hazardous Communication Standard
- **Clean Water Act** This product or its components are not listed.

## 16. Other information

Date of preparation: May 20, 2015

This information is given without a warranty or guarantee. No suggestions for use are intended or shall be construed as a recommendation to infringe any existing patents or violate any Federal, State, or local laws. Safe handling and use is the responsibility of the customer. Read the label before using this product. This information is true and accurate to the best of our knowledge.

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**End of safety data sheet**