

# MSDS Document

## Product POLYQUAT ALGAECIDE 60%

### 1. Chemical Product and Company Identification

**Trade Name of this Product** POLYQUAT ALGAECIDE 60%

**MSDS ID** MSDS2369

**Manufacturer**

Haviland Consumer Products, Inc.  
421 Ann Street N.W.  
Grand Rapids, MI 49504

**Phone Number**

(616) 361-6691

**Emergency Phone**

CHEMTREC (800) 424-9300  
CHEMTREC International (703) 527-3887

**Revision Date** 00/00/00

|                    |   |
|--------------------|---|
| <b>Health:</b>     | 1 |
| <b>Fire:</b>       | 1 |
| <b>Reactivity:</b> | 1 |
| <b>Specific</b>    |   |

### 2. Composition and Information on Ingredients

| <b>Ingredient</b>   | <b>CAS Number</b> | <b>Weight %</b> | <b>ACGIH TLV</b> | <b>PEL</b>      | <b>STEL</b> |
|---|-------------------|-----------------|------------------|-----------------|-------------|
| Poly [oxyethylene<br>(dimethyliminio)ethylen<br>e(dimethyliminio)<br>ethylene dichloride] | 31512-74-0        | 60 %            | Not Established  | Not Established |             |

### 3. Hazard Identification

**Emergency Overview**

May cause mild eye irritation.

**Health Effects**

Slightly hazardous in case of eye or skin contact (irritant).

**Carcinogenicity**

None of the components present in this material are listed by IARC or NTP as a carcinogen.

**Reproductive Effects**

None known

### **Routes of Entry**

Inhalation, Ingestion, Skin or Eye Contact

## **4. First Aid Information**

### **Eye Contact**

Flush immediately with plenty of water for at least 15 minutes, get medical attention.

### **Skin Contact**

Flush with water for at least 15 minutes while removing contaminated clothing. If irritation persists, get medical attention.

### **Inhalation**

Fresh air should alleviate any respiratory discomfort. If breathing difficulties develop or persist, get medical attention.

### **Ingestion**

Call a physician immediately. Do not induce vomiting. Dilute by drinking water or milk. Never give anything by mouth to an unconscious person.

## **5. Fire Fighting Measures**

**Flash Point** > 100°C (212°F)  
**FP Method** TCC

### **Extinguishing Media**

Water spray, foam, carbon dioxide, dry chemical

### **Special Fire Fighting Procedures**

Fire fighters should wear full protective clothing including self-contained breathing apparatus.

### **Unusual Fire Hazard**

None known.

## **6. Accidental Release Measures**

### **Spill and Leak Procedures**

Block any potential routes to water systems. Recover as much of the pure product as possible into appropriate containers. Use absorbent to collect spill or leak residue. Follow all local, state and federal regulations.

## **7. Handling and Storage**

### **Handling Procedures**

Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

### **Storage Procedures**

Keep containers tightly closed when not in use and protect from damage. Store in a cool, well-ventilated area.

## **8. Exposure Controls and Personal Protection**

### **Engineering Controls**

Use in well ventilated areas.

### **Eye Protection**

Safety glasses or goggles required.

### **Protective Gloves**

Rubber or other impervious materials.

### **Respiratory Protection**

None required for normal use.

### **Other Protective Equipment**

Flowing water source should be available. Prevent contact with skin & clothing by using protective garments.

## **9. Physical and Chemical Properties**

|                               |                         |
|-------------------------------|-------------------------|
| <b>Physical State</b>         | Liquid                  |
| <b>Specific Gravity</b>       | 1.15                    |
| <b>Color/Appearance</b>       | Blue liquid             |
| <b>Odor</b>                   | Mild odor               |
| <b>pH</b>                     | 6.0 - 8.0               |
| <b>Boiling/Cond. Point</b>    | > 100°C (212°F)         |
| <b>Melting/Freezing Point</b> | < 0°C (32°F)            |
| <b>Solubility</b>             | Easily soluble in water |
| <b>Vapor Density</b>          | Not Available           |
| <b>Vapor Pressure</b>         | Not Available           |

## **10. Stability and Reactivity**

### **Chemical Stability**

Stable under normal conditions

### **Conditions to Avoid**

None known

### **Incompatible Materials**

Anionic polymers.

### **Hazardous Decomposition Products**

Carbon monoxide

### **Hazardous Polymerization**

Will not occur.

## 11. Toxicological Information

### ACUTE EFFECTS:

Oral (LD50) = 1951 mg/kg Male rat

Oral (LD50) = 2587 mg/kg Female rat

Dermal (LD50) = > 2000 mg/kg Rabbit

## 12. Ecological Information

LC50 = 0.37 mg/l 48 hours Invertebrate

LC50 = 0.26 mg/l 96 hours Fathead minnow

LC50 = 0.21 mg/l 96 hours Bluegill sunfish

LC50 = 0.047 mg/l 96 hours Rainbow trout

LC50 = > 600 mg/l 96 hours Sheepshead minnow

LC50 = 13 mg/l 96 hours Mysid shrimp

## 13. Disposal Considerations

### Waste Disposal

Dispose of waste in accordance with all federal, state, and local regulations.

## 14. Transportation Information

### DOT Shipping Name

Not Regulated

## 15. Regulatory Information

### TSCA

Hazardous Component(s) subject to reporting on the TSCA List.

## 16. Other Information

EPA Reg. No. 57787-23

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