

# MATERIAL SAFETY DATA SHEET

## MSDS

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Date-Issued: 09/27/1997  
MSDS Ref. No: SREG23088  
Date-Revised: 10/03/1997  
Revision No: New MSDS

### Regal Silver Algaecide

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#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Regal Silver Algaecide  
GENERAL USE: Swimming pool algaecide.  
CHEMICAL FAMILY: Colloidal silver alloy dispersion

##### MANUFACTURER

Alliance Packaging, Inc.  
109 Northpark Blvd., Suite 400  
Covington, LA 70433-5001  
Customer SERVICE: (800) 959-7946

##### 24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (Transportation) (800) 424-9300  
Medical (800) 255-3924

##### COMMENTS:

EPA Registration Number: 68161-1-42177

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#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt.%</u>
Silver (Colloidal)	7440-22-4	0.8

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#### 3. HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:  
Brown liquid.

##### IMMEDIATE CONCERNS:

CAUTION: Irritating to skin and eyes. May cause burns with subsequent darkening and possible peeling of skin. May be fatal if swallowed. Wear goggles or safety glasses and rubber gloves when handling this product. Irritating to nose and throat. Avoid breathing vapors. Remove and wash contaminated clothing before reuse. Do not mix with other chemicals.

##### POTENTIAL HEALTH EFFECTS

###### EYES:

CAUTION: Causes eye irritation. Avoid contact with eyes.

###### SKIN:

CAUTION: Causes skin irritation. Avoid contact with skin.

###### INGESTION:

May be fatal if swallowed.

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#### INHALATION:

Irritating to nose and throat. Avoid breathing vapors.

#### CHRONIC:

There are no known chronic hazards.

#### ROUTES OF ENTRY:

Skin Contact, Inhalation, Ingestion, Eye Contact.

#### COMMENTS HEALTH:

Excessive exposure can cause cosmetic discoloration (argyria). Wash well with water. Contact physician.

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## 4. FIRST AID MEASURES

#### EYES:

If contact with eyes occurs: Immediately flush with cold water for at least 15 minutes. Then get immediate medical attention.

#### SKIN:

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

#### INGESTION:

If swallowed: Drink 2-4 glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately.

#### INHALATION:

If inhaled: Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If not breathing, give artificial respiration. Call a physician immediately.

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## 5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: None to 212 F

#### GENERAL HAZARD:

When dried may react with organic reducing agents to produce a flammable or explosive product.

#### EXTINGUISHING MEDIA:

Water Fog

#### HAZARDOUS COMBUSTION PRODUCTS:

Decomposes at 444 C to emit nitrogen oxides.

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#### FIRE FIGHTING EQUIPMENT:

Firefighters should wear full protective clothing and self contained breathing apparatus (SCBA). Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

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## 6. ACCIDENTAL RELEASE MEASURES

#### GENERAL PROCEDURES:

STEP TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Utilizing appropriate clothing and safety equipment, contain spill material. Cover the liquid with an inert absorbent. Using clean, dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry plastic containers for disposal. Dispose of according to local, state and federal regulations.

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## 7. HANDLING AND STORAGE

#### GENERAL PROCEDURES:

Avoid contact with eyes, skin or clothing. Avoid breathing vapors.

#### HANDLING:

Mix only with water. Never add water to product. Always add product to large quantities of water. Do not mix with other chemicals. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion.

#### STORAGE:

Keep this product in its original container when not in use. Store in cool, dry, well-ventilated area. Keep this product and all other chemicals out of children's reach.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE GUIDELINES:

#### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	TWA	EXPOSURE LIMITS				
		OSHA PEL ppm	OSHA PEL mg/m <sup>3</sup>	ACGIH TLV ppm	ACGIH TLV mg/m <sup>3</sup>	SUPPLIER OEL ppm
Silver (Colloidal)				0.01		

#### ENGINEERING CONTROLS:

General room ventilation plus local exhaust should be used to maintain exposure below TLV.

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#### PERSONAL PROTECTIVE EQUIPMENT:

##### EYES AND FACE:

Wear goggles or safety glasses with side shields when handling this product.

##### SKIN:

Wear rubber gloves when handling this product. Avoid contact with skin.

##### RESPIRATORY:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

#### WORK HYGIENIC PRACTICES:

Remove and wash contaminated clothing before reuse.

#### OTHER USE PRECAUTIONS:

Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Slight

COLOR: Brown

pH: 6.7

PERCENT VOLATILE: 97

VAPOR PRESSURE: 18.5 mmHg

VAPOR DENSITY: <1 (Air = 1)

BOILING POINT: 100°C (212°F)

SOLUBILITY IN WATER: Dispersible in Water

SPECIFIC GRAVITY: 1.011 (water=1)

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## 10. STABILITY AND REACTIVITY

#### CONDITIONS TO AVOID:

High temperature. Poor ventilation. Contamination.

#### STABILITY:

This product is stable under normal conditions.

#### POLYMERIZATION:

Hazardous polymerization will not occur under normal conditions.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Decomposes at 444 C to emit nitrogen oxides.

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#### INCOMPATIBLE MATERIALS:

Other swimming pool/spa chemicals in their concentrated forms. Oxidizing compounds. Organic compounds. Reducing agents.

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## 11. TOXICOLOGICAL INFORMATION

#### EYE EFFECTS:

This product is an eye irritant.

#### SKIN EFFECTS:

This product is a skin 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.

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## 12. ECOLOGICAL INFORMATION

#### ECOTOXICOLOGICAL INFORMATION:

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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## 13. DISPOSAL CONSIDERATIONS

#### DISPOSAL METHOD:

Pesticide wastes are toxic. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. 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 or disposal or cleaning of equipment. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire.

#### PRODUCT DISPOSAL:

Dispose of unused, uncontaminated product in compliance with local, state and federal regulations.

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#### EMPTY CONTAINER:

Do not reuse container. Rinse thoroughly before discarding in trash.

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#### 14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)  
PROPER SHIPPING NAME: Not Regulated.

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#### 15. REGULATORY INFORMATION

##### UNITED STATES

##### OSHA HAZARD COMM. RULE:

Product is hazardous by definition of the Hazardous Communication Standard.

##### FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):

This product is a registered pesticide.

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#### 16. OTHER INFORMATION

##### REVISION SUMMARY

New MSDS

##### NFPA CODES

HEALTH: 1    FIRE: 0    REACTIVITY: 1

##### HMIS CODES

HEALTH: 1    FIRE: 0    REACTIVITY: 1    PROTECTION: B

##### MANUFACTURER DISCLAIMER:

IMPORTANT: 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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