

# MATERIAL SAFETY DATA SHEET

PRODUCT NAME: **ALGARITE 500**

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## **HAZARDOUS INGREDIENTS IDENTITY INFORMATION**

Hazardous Components	CAS No	EINECS #	Wt. %
Sodium bromide	7647-15-6	231-599-9	40

Comments: Ingredients listed in this section have been determined to be hazardous as defined in 29 CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available as provided in 29 CFR 1910.1200.

## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

SARA Title III: (Superfund Amendments and Reauthorization Act)

Sec.313 Reportable ingredients: This product or its components are not listed

Engineering Controls: General room ventilation plus local exhaust should be used to minimize exposure to vapors.

Personal protective equipment:

EYES and FACE: Wear chemical safety goggles 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 respirators use.

Work hygienic practices: Wash thoroughly after handling. 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.

## **PHYSICAL CHEMICAL CHARACTERISTICS**

Boiling point: 103°C (217°F) to 104°C (219°F)

Vapor pressure: N/A

Vapor Density: N/A

Solubility in Water: Completely miscible

Specific Gravity: 1.43 (water=1)

Evaporation Rate: NA

pH: 6.5 to 7.5

Appearance and Odor: Colorless, odorless liquid.

## **FIRE AND EXPLOSION HAZARD DATA**

Flash point and method: Non-flammable

General Hazard: There are no unusual fire and explosion hazards known.

Extinguishing Media: Appropriate to surrounding fire.

Special Firefighting 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.

Hazardous Combustion Products: In fires fueled by other materials, hydrogen bromide and/or bromine may be released.

## **ACCIDENTAL RELEASE MEASURES**

General procedures: STEPS 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.

## **HEALTH HAZARD DATA**

ROUTES OF ENTRY: Eye contact, inhalation, and ingestion.

Emergency overview: Physical appearance; colorless, odorless liquid

Immediate concerns: CAUTION: May cause eye irritation. Prolonged and excessive inhalation or ingestion may produce rashes, depression, and emaciation. Avoid contact with eyes. Avoid breathing mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential Health Effects:

Eyes: May cause eye irritation. Avoid contact with eyes.

Skin: Avoid contact with skin.

Ingestion: May be harmful if swallowed.

Inhalation: May be irritating to nose and throat. Avoid breathing vapors.

Chronic: Prolonged and excessive inhalation or ingestion may produce rashes, central nervous system depression and emaciation and, in severe cases, psychoses and mental deterioration.

## **EMERGENCY & FIRST AID PROCEDURES**

**INHALATION:** If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

**EYE CONTACT:** If in eyes: Hold eyelids open and flush eyes with a steady, gentle stream of water for 15 minutes. Obtain medical attention.

**SKIN CONTACT:** If contact with skin: Rinse off excess chemical and flush skin with cold water for at least 15 minutes. If skin irritation develops, seek immediate medical attention.

**INGESTION:** If swallowed: Drink large amounts of water. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

## **REGULATORY INFORMATION**

SARA Title III: (Superfund Amendments and Reauthorization Act)

Sec.313 Reportable ingredients: This product or its components are not listed

CERCLA (Comprehensive Response, Compensation, and Liability Act)

CERLA Regulatory: This product or its components are not listed.

TSCA (Toxic Substance Control Act)

TSCA Regulatory: This product or its components are not subject to export notification.

TSCA Status: This product or its components are listed on the TSCA inventory.

OSHA Hazard Comm. Rule: Product is hazardous by definition of the Hazardous Communication standard.

FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act): This product is not a registered pesticide.

## **STABILITY AND REACTIVITY**

Stability: This product is stable under normal conditions.

Conditions to Avoid: High temperature. Poor ventilation. Contamination.

Incompatibility (Materials to Avoid): Strong acids, strong oxidants.

Hazardous Decomposition Products: If strongly overheated, may release hydrogen bromide and/or bromide.

Polymerization: Hazardous polymerization will not occur under normal conditions.

## **HANDLING AND STORAGE**

General Procedures: Avoid contact with eyes, skin or clothing. Avoid breathing vapors.

Handling: Use safe chemical handling procedures for the hazards presented by this material.

Storage: Keep this product in original closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame.

**TOXICOLOGICAL INFORMATION**

Acute: Dermal LD50: >2000 mg/kg of body weight in rabbits.

Oral LD50: >5000 mg/kg of body weight in rats.

Eye effects: This product is a moderate eye irritant.

Skin effects: Non-irritating to skin.

Carcinogenicity: This product is not listed as a carcinogen by IARC. This product is not listed as a carcinogen by NTP. OSHA does not list this product as a carcinogen.

Reproductive effects: A three generation reproduction study in rats fed 4800 mg/kg of sodium bromide showed a decrease in fertility, no effects were observed at lower levels according to the literature.

**ECOLOGICAL INFORMATION**

Ecotoxicological information: This product may be toxic to fish and aquatic organisms. Keep product from entering waterways and watersheds.

**DISPOSAL CONSIDERATIONS**

Product disposal: Dispose of unused, contaminated product in compliance with local, state and federal regulations.

**DOT HAZARDOUS INFORMATION**

NFPA Codes: HEALTH: 1 FIRE: 0 REACTIVITY: 0

Proper Shipping Name: *Industrial water treatment compound, non D.O.T. regulated*

HMIS HEALTH RATING: 0-INSIGNIFICANT, 1-SLIGHT, 2-MODERATE, 3-HIGH, and 4-EXTREME

RATING FOR THIS PRODUCT:

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