

# MATERIAL SAFETY DATA SHEET

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GENERAL INFORMATION NUMBER: (414) 354-6417  
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## I - Product Identification

### Bio-Cide

PRODUCT CODE: 0637

CHEMICAL FORMULATION: Water based algacide.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 0

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

## II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX %	OSHA PEL	ACGIH TLV	EPA 40 CFR:			CAS #
				302	355	372	
Disodium cyanodithiomidocarbonate	4.90	N/A	N/A	N	N	Y	138-93-2
Potassium N-methyldithiocarbamate	6.76	N/A	N/A	Y	N	Y	137-41-7

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit  
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No  
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).  
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).  
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

## III - Physical Data

BOILING POINT (°F): N/D

SPECIFIC GRAVITY (WATER = 1): 1.07

VAPOR PRESSURE (mm Hg): N/D

VOC CONTENT (% by weight): N/D

VAPOR DENSITY (AIR = 1): N/D

EVAPORATION RATE (WATER = 1): ~ 1.00

SOLUBILITY IN WATER: Soluble

pH: 11.50-12.50

APPEARANCE AND ODOR: Clear, orange liquid, characteristic sulfur odor.

## IV - Fire and Explosion Hazard Data

FLASH POINT (°F): None.

(TEST METHOD): Closed cup

FLAMMABLE LIMITS IN AIR (VOLUME %) UPPER: N/A LOWER: N/A

EXTINGUISHING MEDIA: Water foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters must wear full protective gear including self-contained breathing apparatus. Fire may produce hazardous fumes. Do not breathe the smoke or mist.

UNUSUAL FIRE AND EXPLOSION HAZARD: None.

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**V - Reactivity Data**

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**STABILITY:** Stable**INCOMPATIBILITY:** Strong acid and oxidizers.**CONDITIONS TO AVOID:** Corrosive to aluminum.**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may yield carbon disulfide, hydrogen sulfide, methylamine, methylisothiocyanate.**HAZARDOUS POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** None

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**VI - Health Hazard Data**

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**ROUTES OF ENTRY**    **INHALATION:** X    **EYE CONTACT:** X    **SKIN CONTACT:** X    **INGESTION:** X**INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS:** None.**EFFECTS OF OVEREXPOSURE****IF IN EYES:** Corrosive-Severe irritation, redness, tearing. Eye damage is irreversible.**IF ON SKIN:** Moderate to severe irritation and burns.**IF SWALLOWED:** DANGER-Harmful or fatal if swallowed. Gastrointestinal irritation, nausea, vomiting.**IF INHALED:** Irritation to upper respiratory tract.**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation persists, obtain medical attention.**IF ON SKIN:** Flush area with water while removing contaminated clothing. Continue flushing for 15-20 minutes. Launder clothing separately before reuse. If irritation persists, obtain medical attention.**IF SWALLOWED:** Contact physician or poison control center immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting unless instructed by a physician or poison control center. Never give anything to an unconscious person.**IF INHALED:** Remove 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 physician for further treatment advice.**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

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**VII - Spill or Leak Protection**

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**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Ventilate area and contain spill. Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal.**WASTE DISPOSAL METHOD:** Consult local environmental authorities.

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**VIII - Special Protection Information**

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**RESPIRATORY PROTECTION:** Use with adequate ventilation. Do not breathe vapors or mists.**VENTILATION****LOCAL:** Recommended.**MECHANICAL:** Not required.**PROTECTIVE GLOVES:** Chemical resistant.**EYE PROTECTION:** Goggles or face shield.**OTHER PROTECTIVE EQUIPMENT:** Eye wash station, protective clothing.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place away from strong acids or oxidizing substances. Keep container tightly closed when not in use.**OTHER PRECAUTIONS:** Keep out of reach of children.

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**IX - Transportation Information (ground transportation only)**

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**DOT PROPER SHIPPING NAME:** None**DOT CLASS:** None**DOT ID NUMBER:** None**DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (<119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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