



# MATERIAL SAFETY DATA SHEET

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Company Name</b> Nu-Calgon Wholesaler, Inc.	<b>Phone Number</b> (314) 469-7000 / (800) 554-5499	<b>CHEMTREC</b> (800) 424-9300		
<b>Street Address</b> 2008 Altom Court	<b>City</b> St. Louis	<b>State</b> MO	<b>Postal Code</b> 63146-4151	<b>Last Update</b> 5/11/07
<b>Product Name</b> No. 90 Algaecide	<b>Product Number</b> 4109	<b>Product Use</b> Cooling Water Microbiocide		<b>EPA Registration #</b> 5185-420-65516

## SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<b>Hazardous Ingredients</b>	<b>% By Wt.</b>	<b>CAS Number</b>	<b>TLV</b>	<b>PEL</b>
1-Bromo-3-Chloro-5, 5-Dimethylhydantoin	96	16079-88-2	N/A	N/A

## SECTION 3 – HAZARD IDENTIFICATION

**Emergency Overview:** Mix only with water. Use clean, dry utensils and equipment. Do not mix with other chemicals. Such use may cause violent reaction.

### **Potential Health Effects**

**Eyes:** Direct contact causes severe eye irritation. Can cause irreversible eye damage.

**Skin:** Corrosive to tissues. Remove and wash all contaminated clothing before reuse.

**Ingestion:** Poisonous, may be fatal if swallowed.

**Inhalation:** Irritating to nose and throat.

**Chronic Exposure:** No available information was found.

**Carcinogenicity:** No Data.

**Medical Conditions Aggravated by Exposure:** No Data.

## SECTION 4 – FIRST AID MEASURES

**Eyes:** In case of contact, flush eyes copiously with water for at least 15 minutes and get medical attention.

**Skin:** Remove and wash all contaminated clothing before reuse. After handling, wash hands thoroughly.

**Ingestion:** If swallowed, drink raw egg whites, milk or mucilage, follow with emetic (tablespoon of mustard in glass of warm water).

**Inhalation:** Remove to fresh air. Contact a physician, if irritation persists.

## SECTION 5 – FIREFIGHTING MEASURES

**Flash Point:** Nonflammable°C/Nonflammable°F

**Autoignition Temp:** No Data.°C/No Data.°F

**Hazardous Products of Combustion:** No Data.

**Flammable Limits in Air:** N/A

**Extinguishing Media:** Water

**Fire and Explosion Hazards:** Product is a strong oxidizing agent. Contamination with moisture, organic matter or other chemicals may start a chemical reaction with generation of heat, hazardous gases and possible fire and explosion. In case of contamination or decomposition do not reseal container. If possible, isolate container in open air or well ventilated area. If necessary, flood with large volume of water.

**Special Firefighting Procedures:** If involved in a fire, hydrogen bromide or bromine may be released. Exercise caution when fighting any chemical fire. Respiratory protection is essential. In large fires, product may smolder for prolonged periods emitting a dense black smoke.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Spill or Leak:** Dispose of in accordance with federal, state and local regulations. Sweep up spilled material and repackage. Wash area of spill with large amounts of water.

## SECTION 7 – HANDLING AND STORAGE

**Handling Procedures and Equipment:** Do not get in eyes, on skin or clothing. Keep container closed. Keep out of reach of children. After handling, wash hands thoroughly. Do not breath dusts. Store in a cool, dry area away from fire or flame.

**Storage Requirements:** Do not get in eyes, on skin or clothing. Keep container closed. Keep out of reach of children. After handling, wash hands thoroughly. Do not breath dusts. Store in a cool, dry area away from fire or flame.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection:** Dust mask essential where dusting may occur.

**Eye Protection:** Eye goggles

**Protective Clothing:** Rubber Gloves, Protective clothing.

**Exposure Guidelines:** No Data.

**Specific Engineering Controls (such as ventilation, enclosed process):** Local and mechanical exhaust is recommended.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Form:</b> White compressed tablets	<b>Freezing Point:</b> Solid°C/Solid°F	<b>% Volatile by Weight:</b> No Data.%
<b>Color:</b> White	<b>Vapor Density [air =1]:</b> Solid	<b>Evaporation Rate:</b> Solid
<b>Odor:</b> Strong halogen odor	<b>Vapor Pressure:</b> Solid	<b>Specific Gravity:</b> Solid
<b>Boiling Point:</b> Solid°C/Solid°F	<b>Solubility in Water:</b> 0.15g/100g in H2O	<b>pH (concentrate):</b> N/A

## SECTION 10 – STABILITY AND REACTIVITY

**Chemical Stability:** Stabil under normal conditions.

**Hazardous Polymerization:** None known.

**Incompatibilities:** Organics and strong reducing agents.

**Reactive Conditions to avoid:** Do not mix with anything but water.

**Decomposition Products:** Fires may release hydrogen bromide or bromine.

## SECTION 11 – TOXICOLOGICAL INFORMATION

<b>Hazardous Ingredients</b>	<b>CAS #</b>	<b>EINECS #</b>	<b>LD 50 of Ingredient</b> (Specify Species)	<b>LC50 of Ingredient</b> (Specify Species)
1-Bromo-3-Chloro-5, 5-Dimethylhydantoin	16079-88-2	No Data.	ORAL LD50 Rat>200 mg/kg	

## SECTION 12 – ECOLOGICAL INFORMATION

<b>Hazardous Ingredients</b>	<b>Aquatic Toxicity Data</b>
No Data.	No Data.

## SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste Disposal:** PESTICIDE DISPOSAL: Pesticide, spray mixture, or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. CONTAINER DISPOSAL: Dispose of in an incinerator or landfill approved for pesticide containers. Do not reuse empty container. GENERAL: Consult federal, state or local disposal authorities for approved alternative procedures.

**SECTION 14 – TRANSPORTATION INFORMATION**

Special Shipping Information: No Data.

<u>Purview</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
<b>DOT</b> (Land)	Oxidizing Solid, n.o.s.	1479	II	Oxidizer (5.1)
<b>IMO</b> (Water)	No Data.			
<b>ICAO</b> (Air)	No Data.			

**SECTION 15 – REGULATORY INFORMATION**

<b>WHMIS Classification:</b> (Workplace Hazardous Material Information System)	Class C - Oxidizing Material
<b>SARA Title III:</b> (Superfund Amendments & Reauthorization Act)	No Data.
<b>OSHA:</b> (Occupational Safety & Health Administration)	No Data.
<b>TSCA:</b> (Toxic Substance Control Act)	All ingredients are TSCA listed.
<b>VOC:</b> (volatile Organic Compounds)	Solid
<b>CPR:</b> (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.
<b>EINECS:</b> (European Inventory of Existing Commercial Chemical Substances)	No Data.
<b>DSL / NDSL:</b> (Canadian Domestic Substance List)(Non-Domestic Substance List)	No Data.
<b>CERCLA:</b> (Comprehensive Response Compensation & Liability Act)	No Data.
<b>IDL:</b> (Canadian Ingredient Disclosure List)	No Data.
<b>NFPA (HMIS) Rating:</b> (Hazardous Materials Identification System)	Health Hazard.....: 1 Fire Hazard.....: 0 Reactivity.....: 2 Personal Protection...: X

**SECTION 16 – OTHER INFORMATION**

No Data.

The information contained herein is based on the data available to us and is believed to be correct. However, Nu-Calgon Wholesaler Inc. makes no warranty, expressed, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Nu-Calgon Wholesaler Inc. assumes no liability for injury from the use of the product described herein.