

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List) **MINI SLOW DISSOLVING BROMINATING TABLETS**

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I – General Information

Manufacturer's Name: QUALCO, INC.	Telephone Number for Information: 973-473-1222
Address (Number, Street, City, State and ZIP Code) 225 Passaic Street	Emergency Telephone Number (973) 473-1222 or (CHEMTREC) 1-800-424-9300
Passaic, NJ 07055	Date Prepared FEBRUARY 2004
	Signature of Preparer (optional)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
1-Bromo-3-Chloro-5, 5-Dimethyl Hydantoin (CAS #126-06-7)		0.2 mg/m ³		
Sodium Chloride (CAS #7647-14-5)	NOT EST.	NOT EST.		
D.O.T. Oxidizer 5.1, PG II, SOLID n.o.s. UN1479				
EPA Registered Pesticide 8622-41-43504				

Section III – Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1) Bulk Density	< 1
Vapor Pressure (mm Hg.)	N/A	Melting Point – Decomposes @	120°-148 °C
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	<1
Solubility in Water 0.54 grams / 100 grams @ 25°C		pH: (1% Solution): N/A	
Appearance and Odor	Off white tablet with a slight pungent odor		

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) >200°F	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguished Media	Foam, dry chemicals or water.		
Special Fire Fighting Procedures:	Flood burning material with large quantities of water. Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire exposed containers with water spray.		
Unusual Fire and Explosion Hazards	Material is strong oxidizer and corrosive. May ignite combustible materials and may produce noxious gases. Products of combustion are toxic. Airborne dusts of this product in an enclosed space and in the presence of an ignition source may constitute an explosion hazard. Use adequate explosion proof ventilation systems to control dust at the source. Avoid generating product dust near sources of ignition, including electricity.		

(Reproduce locally)

Mini Slow Dissolving Brominating Tablets

Section V – Reactivity Data				
Stability	Unstable		Conditions to Avoid: None known. (Decomposes at 165°C)	
	Stable	X		
Incompatibility (<i>Materials to Avoid</i>) Strong acids and alkalis, High storage temperatures, moisture & readily oxidizable material.				
Hazardous Decomposition of Byproducts Thermal decomposition may produce toxic vapors/fumes of chlorine, bromine, organic materials and oxides of carbon and nitrogen.				
Hazardous Polymerization	May Occur		Conditions to Avoid None known	
	Will Not Occur	X		
Section VI – Health Hazard Data				
Route(s) of Entry		Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (<i>Acute and Chronic</i>) Acute: Eye: Severe irritation/corneal burns on prolonged contact. Skin: Severe Irritation with prolonged contact. Reddening and necrosis of skin; burns may be severe. Inhalation: Irritation of mucous membranes. Severe burn to respiratory tissues. Ingestion: Same as inhalation.				
Carcinogenicity	N/A	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
Signs and Symptoms of Exposure: Eye & Skin: Severe burning, irritation, redness, eye tearing. Inhalation: Coughing, irritation to membranes and burn to respiratory tissues. Ingestion: Severe burning and irritation to respiratory tract				
Medical Conditions				
Generally Aggravated by Exposure Persons with pre-existing eye, skin and respiratory disorders may be susceptible to aggravation due to irritant nature of product.				
Emergency and First Aid Procedures Eyes: Flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention. If physician not available, flush for additional 15 minutes and then transport victim to medical care. Skin: Immediately wipe away excess material with a dry cloth while removing contaminated clothing and shoes. Under safety shower, wash affected areas thoroughly with large amounts of water, and soap, if available, for at 15 minutes. Get immediate medical attention. Discard or decontaminate clothing and shoes. Inhalation: Remove from area to fresh air. If not breathing, clear airway and give artificial respiration, if necessary. If victim is having trouble breathing, give supplemental oxygen, if available. Get immediate medical attention. Ingestion: If swallowed, immediately give 3-4 glasses of water. Do not induce vomiting. If vomiting occurs, give fluids again. Get immediate medical attention. Have physician determine if patient's condition allows induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.				
Section VII – Precautions for Safe Handling and Use				
Steps to be Taken in Case Material is Released or Spilled DANGER. Oxidizing and corrosive material. Dust explosion hazard. Do not get in eyes or on skin. Do not breathe dust. For spills, wear appropriate protective gear, and respiratory protection. Where dust may be generated, wear full face respiratory protection, and remove all sources of ignition. For large spills, or when spilled material comes in contact with water, self-contained breathing apparatus is preferred. Carefully sweep up spilled material (avoid generating dust) and place in an appropriate container for disposal. Do not contaminate with oxidizable materials. Neutralize any residue with dilute, alkaline sodium bisulfite or thiosulfate solution. Absorb with sand or vermiculite and place in a compatible container for disposal. If spilled material is wet, neutralize and proceed as stated above. Material is toxic to fish. Do not discharge into lakes, streams, ponds or public waters unless in accordance with an NPDES permit.				
Waste Disposal Method Dispose of in compliance with all Federal, State and Local laws and regulations. Incineration is the preferred method. Relatively small quantities of product may be neutralized as above, and, if in accordance with local laws and the operators of the local sewage treatment plant, the neutralized material may be discharged into the sewer system.				
Precautions To Be Taken In Handling And Storing				
Do not breathe dust. Avoid generating dust. Store in a cool, dry place, isolated from direct sunlight. Do not allow product to come in contact with oxidizable material. Keep container closed.				
Other Precautions				
Use only clean, dry utensils for transfer. Keep out of reach of children. Use product only as directed. Handle with care.				

Section VIII – Control Measures

Respiratory Protection (*Specify Type*)

Not necessary under normal use conditions.

Ventillation	Local Exhaust .	Special .
	Mechanical (<i>General</i>)	Other

Protective Gloves Rubber	Eye Protection Do not wear contact lenses.
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Other Protective Clothing or Equipment **Eye wash & safety shower in work/storage areas. Wear uniform or coveralls, long-sleeved to minimize contact with product.**

Work/Hygienic Practices **Remove contaminated clothing and launder before reuse. Wash well after use and observe good, personal hygiene.**