
PHOENIX PRODUCTS CO. PRODUCT NAME: CLEARBROM BROMINATING MATERIAL
55 Container Drive TABLETS, AND PRIVATE LABEL SAFETY DATA
Terryville, CT 06786 SHEET
(860) 589-7502 11/01/01

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SECTION I - IDENTIFICATION

CHEMICAL NAME & SYNONYMS: 1-Bromo-3-chloro-5, 5-dimethylhydantoin;
1-3 dibromo-5, 5-dimethylhydantoin

CHEMICAL FAMILY: Halogenated hydantoin

CHEMICAL FORMULA: C₅H₆BrClN₂O₂

TRADE NAME: Clearbrom Brominating Tablets and Private Label

DESCRIPTION: Fine white tablets with a slight pungent odor.

CAS NO: 126-06-7 and 77-48-5

HMIS HAZARD RATING: Health Hazard: 3 Fire Hazard: 1 Reactivity: 1

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SECTION II - PHYSICAL DATA

Boiling Point: N/A

Melting Point: 158 - 165°C

Specific Gravity (H₂O=1): N/A

Freezing Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

% Volatile by Volume: < 0.5

Evaporation Rate: <1

Solubility in water: 0.25 g/100 gm @ 25°C

pH: N/A

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SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point: Decomposes at 160°C

Autoignition Temp: N/A

Flammable Limits in Air % By Volume: N/A

Extinguishing Media: Use media appropriate for surrounding fire.

Special Fire Fighting Procedures: Cool fire-exposed containers with water spray. Flood burning material with large quantities of water, to minimize the progressive generation of noxious gases. Must wear NIOSH approved self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: Material is a strong oxidizer and corrosive. May ignite combustible materials. At 160°C will decompose, releasing irritant, toxic hydrogen bromide fumes. Will smolder in large fires fueled by other materials with emission of dense black smoke for a long time.

OSHA CLASSIFICATION: Class 1 Oxidizer

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SECTION IV - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

Inhalation: Can be severely irritating to the lungs with potential systematic absorption and tissue damage.

Skin: My result in severe irritation. Prolonged skin contact may cause irreversible damage. Burns may be sever if skin is wet or damp.

Eye: My cause severe irritation. Prolonged contact may cause irreversible damage.

Ingestion: Like inhalation; will burn digestive tract tissues severely.

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SECTION V - EMERGENCY AND FIRST AID PROCEDURE

INHALATION: Remove patient from area to fresh air. If patient is having trouble breathing administer oxygen, if available. If patient is not breathing start artificial respiration.

SKIN: Immediately wipe off excess material with a dry cloth. Remove contaminated clothing. Wash affected areas thoroughly with mild soap and plenty of water under a safety shower, if available, for at least 15 minutes. Discard or decontaminate clothing. Get medical attention if irritation persists.

EYE: Holding eyelids apart and rolling the eyes, flush eyes with large amounts of water for 15 minutes. Get medical attention.

INGESTION: If swallowed, give several glasses of water. DO NOT induce vomiting. If vomiting occurs, give fluids again. DO NOT give anything by mouth to an unconscious or convulsing person. Get immediate medical attention. Have physician determine if patient's condition allows induction of vomiting or evacuation of stomach.

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SECTION VI - TOXICOLOGY

Oral LD50 (rat): estimated at 470 mg/kg

Skin Irritation (rabbit): Corrosive

Eye Irritation (rabbit): Corrosive

***Note:** Severely irritating to the lung upon inhalation with potential systematic absorption and tissue damage.

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SECTION VII - REACTIVITY DATA

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (materials to avoid): Water, strong acids and alkalis, high storage temperatures, moisture and readily oxidizable materials.

Hazardous Decomposition: Thermal decomposition may produce toxic organic vapors/fumes and oxides of carbon and nitrogen.

Hazardous Polymerization: Will not occur.

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SECTION VIII - SPILL, LEAKAGE & DISPOSAL PROCEDURES

Steps to take if material leaks or spills: DANGER: Oxidizing and corrosive material. Wear appropriate protective gear and respiratory protection. Prevent dusting, carefully either shovel or sweep up and place in an appropriate container. DO NOT contaminate with oxidizable materials. Small amounts may be neutralized. 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 material is wet, neutralize and proceed as stated above. Material is toxic to fish. DO NOT discharge into lakes, streams, ponds, or public waster unless in accordance with all Federal, State and Local regulations.

Waste disposal method: Dispose of in compliance with all Federal, State and Local regulations. Incineration is the preferred method. Relatively small quantities of product may be neutralized as stated 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.

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SECTION IX - SPECIAL PROTECTION DATA

Ventilation: Local Exhaust: Recommended if dusting occurs.

Mechanical Equipment : General Ventilation

Respiratory Protection: While handling product wear a NIOSH approved respirator.

Protective Gloves: Wear acid resistant gloves such as rubber, plastic or neoprene.

Eye Protection: Wear chemical goggles where there is a potential for eye contact. Use safety glasses or plastic goggles with side shields under normal conditions. DO NOT wear contact lens when handling this product.

Other Equipment: Clothes should completely cover skin to avoid skin contact. Coats, coveralls, or aprons are recommended. Eye wash and shower stations are recommended.

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SECTION X - SPECIAL PRECAUTIONS DATA

Handling and Storage: Avoid breathing dust. Store in a cool dry area, away from all organic material. Avoid heat and direct sunlight. DO NOT allow product to come in contact with oxidizable material. Keep containers closed tightly.

Other: Wear all recommended protective equipment when handling this product. Personnel handling this product should be aware of the location of the nearest eye wash and shower stations.

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SECTION XI - TRANSPORTATION INFORMATION

Oxidizing solid, N.O.S, (1-Bromo-3, chloro-5, 5-dimethyl hydantoin), 5.1, UN1479, PGII.

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The information herein is given in good faith but no warranty, expressed or implied, is made.

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