

MATERIAL SAFETY DATA SHEET

SECTION I - COMPANY AND PRODUCT INFORMATION

EPA REG. NO..... 6836-116-7616
Product SKU Number:..... 266, 267, 268
Manufacturer's Name:..... Chem Lab Products, Inc.
Emergency Telephone No.:..... (909) 390-9912
..... (800) 424-9300 (CHEMTREC)
Address:..... 5160 E. Airport Drive
City/State/Zip code:..... Ontario, CA 91761
Chemical Name and Synonyms:..... Mixture (SEE SECTION II)
Trade Name and Synonyms:..... **Spa Kem Brominating Tablets**
Chemical Family:..... Mixture (SEE SECTION II)
Formula:..... C₅H₆BrClN₂O₂ CAS # SEE SECTION II
NFPA Rating:.. Health:3 Flammability:1 Reactivity:1 Special: (ox)
DOT Proper Shipping Name:..... Mixture
DOT Hazard Class:..... 5.1
DOT ID Number:..... UN1479
Package Group:..... II

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF:	CAS No:	%:
Bromochloro-5, 5-dimethylhydantoin	120-06-7	60.0
1,3-Dichloro-5, 5-dimethylhydantoin	118-52-5	27.4
1,3-Dichloro-5-ethyl-5-mehtylhydantoin	89415-87-2	10.6
Sodium Chloride	7647-14-5	1.0

SECTION III - PHYSICAL DATA

FREEZING POINT..... N/A	DECOMPOSITION TEMPERATURE. 120-148°C
BOILING POINT N/A	BULK DENSITY (loose)... 60.1 lbs/ft ³
SPECIFIC GRAVITY (H ₂ O)=1).. N/A	pH (in 1% solution)..... Not Known
pH N/A	WATER SOLUBILITY @25°C..0.2gms/100mls
VAPOR PRESSURE (cm Hg.).... N/A	VAPOR DENSITY (Air = 1)..... N/A
PERCENT VOLATILE <0.5	MOLECULAR WEIGHT..... 241.5
EVAPORATION RATE (____=1)... <1	ODOR Very slight pungent
APPEARANCE ... Off-white briquettes	MELTING POINT....N/A (decomposes)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... none
FLAMMABLE LIMITS..... N/A
EXTINGUISHING MEDIA:..... Use water spray to cool containers exposed to fire.
Dry powder, carbon dioxide, or massive quantities of water to dilute material involved in fire.
SPECIAL FIRE FIGHTING PROCEDURES:..... Self-contained breathing apparatus with full face-piece and protective clothing. DO NOT BREATHE FUMES. Contain run-off.
UNUSUAL FIRE AND EXPLOSION HAZARDS:..... Strong oxidizing agent. Solid material is highly irritating to skin eyes, and respiratory tract. Decomposition from heat or contact with water will evolve dense and noxious fumes containing hydrogen bromide, nitrogen oxides, hydrogen chloride and other toxic gases. Forms explosive mixtures with combustible, organic or other easily oxidizable materials.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:..... 0.2mg/m³
EFFECTS OF OVEREXPOSURE:..... Direct skin and eye contact can result in severe skin and eye irritation. Prolonged contact may produce irreversible damage.
Inhalation of high concentrations can be severely irritating to the lung with potential systemic absorption and tissue damage. Repeated skin exposure may induce sensitization.

EMERGENCY AND FIRST AID PROCEDURES:..... **IF SWALLOWED:** Drink promptly large quantities of water. Do not induce vomiting. Avoid alcohol. Never give anything by mouth to an unconscious person. Get medical attention immediately. **IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention. **IF ON SKIN:** Wash with plenty of soap and water. Get medical attention. **IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably, mouth-to-mouth. Get medical attention. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION VI - REACTIVITY DATA

STABILITY:..... .. Stable under normal conditions of storage, shipment and/or use.
CONDITIONS TO AVOID:..... None Known.
INCOMPATIBILITY: (Materials to avoid)... Strong acids and alkalis, oxidizing agents, high storage temperatures, moisture and readily oxidizable material.
HAZARDOUS DECOMPOSITION PRODUCTS:..... Thermal decomposition may produce toxic vapors/fumes of chlorine, bromine, organic materials and oxides of carbon and nitrogen.
HAZARDOUS POLYMERIZATION:..... Will Not Occur.
CONDITIONS TO AVOID None Known.

SECTION VII - ACCIDENTAL RELEASE PROCEDURES

STEPS TO BE TAKEN IN CASE OF MATERIAL RELEASED OR SPILLED:

Wear eye protection, protective clothing and respiratory protection during cleanup. Sweep up and recover or mix material with moist absorbent and shovel into waste container, wash down spill area with copious amounts of water and flush to sanitary drain or sewer serviced by wastewater treatment facility.

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 Products 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.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: (Specify type)

Use MSHA-NIOSH approved respirator for dusts, mists, and fumes.

VENTILATION:

LOCAL EXHAUST: At open transfer points

PROTECTIVE GLOVES: Rubber gloves

EYE PROTECTION: Chemical Safety goggles

OTHER PROTECTIVE EQUIPMENT: Chemical resistant aprons.

SECTION IX - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep Products in tightly closed container when not in use. Store in cool, dry, well ventilated area away from heat and open flame. In case of decomposition, isolate container in open area, if possible, and flood with large amounts of water.

OTHER PRECAUTIONS: Do not reuse empty container. Rinse empty container thoroughly with water to dissolve all material before discarding. Place in trash collection or dispose in approved landfill area.

This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.