

# MATERIAL SAFETY DATA SHEET

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

### Brom 7.5% Herbicide Concentrate

**CHEMICAL FORMULATION:** Water based herbicide concentrate.

**NFPA HAZARD IDENTIFICATION SYSTEM:**      **HEALTH:** 1      **FLAMMABILITY:** 1      **REACTIVITY:** 0  
**HAZARD RATING:**                      4 - Extreme;                      3 - High;                      2 - Moderate;                      1 - Slight;                      0 - Insignificant

## II - Hazardous Ingredients

Values reported as TWA unless noted.

<u>SUBSTANCE</u>	<u>APPROX</u> <u>%</u>	<u>OSHA</u> <u>PEL</u>	<u>ACGIH</u> <u>TLV</u>	<u>EPA 40 CFR:</u>			<u>CAS #</u>
				<u>302</u>	<u>355</u>	<u>372</u>	
Lithium salt of Bromacil	7.5	N/E	N/E	N	N	N	314-40-9
Ethylene glycol	5.00-15.0	50 ppm	50 ppm	Y	N	Y	107-21-1
Ethanol	1.00-5.00	1,000 ppm	1,000 ppm	N	N	N	64-17-5
Methanol	< 2.00	200 ppm	200 ppm	Y	N	Y	67-56-1

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):** 1.04  
**VAPOR PRESSURE (mm Hg):** N/D      **VOC CONTENT (% by weight):** < 10.0  
**VAPOR DENSITY (AIR = 1):** N/D      **EVAPORATION RATE (WATER = 1):** N/D  
**SOLUBILITY IN WATER:** Soluble      **pH:** 11.25-12.00  
**APPEARANCE AND ODOR:** Clear, amber liquid; mild odor.

## IV - Fire and Explosion Hazard Data

**FLASH POINT (°F):** > 200      **(TEST METHOD):** Closed cup  
**FLAMMABLE LIMITS IN AIR (VOLUME %)**      **UPPER:** N/D      **LOWER:** N/D  
**EXTINGUISHING MEDIA:** Water, foam, carbon dioxide, dry chemical.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus. Minimize amount of water used to fight fire as run-off may cause pollution.  
**UNUSUAL FIRE AND EXPLOSION HAZARD:** If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated.

PRODUCT NAME: Brom 7.5% Herbicide Concentrate

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### V - Reactivity Data

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**STABILITY:** Stable

**INCOMPATIBILITY:** Acids and amines, especially primary amines.

**CONDITIONS TO AVOID:** None.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon.

**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:** Mild to moderate irritation and redness.

**IF ON SKIN:** Redness, dryness and irritation, with prolonged or repeated exposure.

**IF SWALLOWED:** Gastrointestinal irritation, weakness, nausea, cramps, 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 minutes. If irritation persists, obtain medical attention.

**IF ON SKIN:** Remove contaminated clothing and launder before reuse. Wash with soap and water. If irritation persists, obtain medical attention.

**IF SWALLOWED:** Contact physician or poison control center immediately. Give affected person one to two glasses of water and induce vomiting if instructed by a physician or poison control center. Never give anything to an unconscious person.

**IF INHALED:** Remove person to fresh air. Administer artificial respiration, if breathing has stopped. If breathing is difficult, administer oxygen.

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### VII - Spill or Leak Protection

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**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Contain spill. Ventilate area and remove all sources of ignition.

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. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.

**VENTILATION**

**LOCAL:** Recommended

**MECHANICAL:** Not required

**PROTECTIVE GLOVES:** Chemical resistant.

**EYE PROTECTION:** Chemical goggles or face shield.

**OTHER PROTECTIVE EQUIPMENT:** Protective clothing.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place away from heat or open flame. Keep container tightly closed when not in use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

**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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**Prepared by:** PMR

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