

# MSDS - Material Safety Data Sheet

## Product Name: Brominating Tablets (SPA)

MSDS No.: 039900

**Part Numbers Covered:**

039900

**I. Basic Information:**

**Manufacturer:** Lonza  
**Address:** 17-17 Rt. 208  
**City, ST Zip:** Fair Lawn, NJ 07410  
**Emergency Contact:**  
**Emergency Telephone Number:** (800)424-9300  
**Contact:**  
**Information Telephone Number:** (800)777-1875



**Last Update:** 07/08/2002      **Expiration Date:**  
**Chemical State:**     Liquid       Gas       Solid  
**Chemical Type:**     Pure       Mixture

<b>3</b>	Health
<b>1</b>	Flammability
<b>1</b>	Reactivity
<b>E</b>	Pers. Protection

**II. Ingredients:**

Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB	Z	313				
118	1,3-Dichloro-5, 5-dimethylhydantoin	NI							.2 mb/m3	.2 mg/m3	NI
89415	1,3-dichloro-5-ethyl-5-methylhydantoin	NI							NI	NI	NI
126	Bromochloro-5, 5-dimethylhydantoin	NI							NI	NI	NI
7647	Sodium Chloride	NI							NI	NI	NI

**III. Hazardous Identification:**

**Hazard Category:**  
 Acute       Chronic       Fire       Pressure       Reactive

**Hazardous Identification Information:**  
 NDA

**IV. First Aid Measures:**

**Route(s) of Entry:**  
 Skin, Eyes, Inhalation

**Health Hazards (Acute and Chronic):**

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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.

### Signs and Symptoms:

Irritant

### Medical Conditions Generally Aggravated by Exposure:

None indicated

### Emergency and First Aid Procedures:

Eyes: Flush with water for 15 minutes. Get immediate medical attention.

Skin: Immediately wipe away excess material with dry cloth while removing contaminated clothing and shoes. Under safety shower, wash affected areas with water and soap if available. Get immediate medical attention. Discard or decontaminate clothing and shoes.

EMERGENCY FIRST AID CALL: 1-303-623-5716 COLLECT

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.

Inhalation: Remove to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing give supplemental oxygen, if available. Get immediate medical attention.

### Other Health Warnings:

This material is a sensitizer to the skin. It can produce acute reactions in both skin, eye, and inhalation exposure.

### V. Fire Fighting Measures:

Flash Point: >200 F

Lower Explosive Limit: NI

Upper Explosive Limit:

F.P. Method:

Fire Extinguishing Media: Foam, Dry Chemical or Water.

### Special Fire Fighting Procedures:

To minimize the progressive generation of noxious gases, flood burning material with large quantities of water. Must wear NIOSH/MSHA approved SCBA and protective clothing. Cool fire-exposed containers with water spray.

### Unusual Fire and Explosion:

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 system to control dust at the source. Avoid generating product dust near sources of ignition, including static electricity. Use safety measures in accordance with the 1988 edition of NFPA 654 (Standard for prevention of dust explosions in the Chemical, Dye, Pharmaceutical and Plastic Industries).

### VI. Accidental Release Measures:

#### 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, SCBA 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 water unless in accordance with an SPDES permit

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### VII. Handling and Storage:

#### Precautions to be Taken:

Do not breath dust. Avoid generating dust. Store in a cool, dry place, isolated from all organic material. Product is a strong oxidizer and is corrosive. Avoid heat and direct sunlight. Do not allow product to come in contact with oxidizable material. Keep container closed.

#### Other Precautions:

NI

### VIII. Exposure Controls/Personal Protection:

#### Ventilation Requirements:

In processes where dusts or airborne particulates may be generated, proper ventilation must be provided in accordance with good ventilation practices.

#### Personal Protective Equipment:

In processes where dusts or airborne particulates may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

Wear Rubber or neoprene gloves to prevent skin contact.

Wear chemical goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

Wear protective clothing (long sleeves, coveralls or other as appropriate) to prevent skin contact.

### IX. Physical and Chemical Properties:

**Boiling Point:** NI

**Melting Point:** 120-148

**Evaporation Rate (Butyl Acetate = 1):** NI

**Vapor Pressure (mm Hg.):** NI

**Specific Gravity (H20 = 1):** 0.00000

**Vapor Density (AIR = 1):** NI

**Solubility In Water:** .54 g/100 gms @25 C

**Appearance and Odor:** Off-white briquettes, very slight p

#### Other Information:

### X. Stability and Reactivity:

#### Stability:

Stable`

#### Incompatibility (Materials to Avoid):

Avoid Strong acids and alkalis, high storage temperatures, moisture and readily oxidizable material.

#### Decomposition/By Products:

Thermal decomposition may produce toxic vapors/fumes of chlorine, bromine, organic materials and oxides of carbon and nitrogen.

#### Hazardous Polymerization:

Will not occur

### XI. Toxicological Information:

NDA

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## ***XII. Ecological Information:***

NDA

## ***XIII. Disposal Considerations:***

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 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.

## ***XIV. Transport Information:***

## ***XV. Regulatory Information:***

NDA

## ***XVI. Other Information:***

This is an EPA registered pesticide (EPA Registration No. 6836-116). Federal Level Regulations apply to:

Toxic Substances Control Act Status

CERCLA (in quantities greater than the RQ

SARA Title III Sections 302/304 (Superfund)

SARA Title III Section 311-312 (Community Right to Know)

SARA Title III Section 313

NI