

# MSDS Document

## Product LITHIUM SHOCK

### 1. Chemical Product and Company Identification

Trade Name of this Product LITHIUM SHOCK

MSDS ID MSDS1427

**Manufacturer**

Haviland Consumer Products, Inc.

421 Ann Street N.W.

Grand Rapids, MI 49504

**Phone Number**

(616) 361-6691

**Emergency Phone**

CHEMTREC (800) 424-9300

CHEMTREC International (703) 527-3887

**Revision Date** 00/00/00

Health:	3
Fire:	0
Reactivity:	1
Specific	

### 2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %	ACGIH TLV	PEL	STEL
Lithium hypochlorite	13840-33-0	29 %	Not Established	Not Established	
Lithium carbonate	554-13-2	2 %	Not Established	Not Established	
Sodium sulfate	7757-82-6		Not Established	Not Established	
Water	7732-18-5		Not Established	Not Established	
Sodium chloride (NaCl)	7647-14-5		Not Established	Not Established	
Potassium Bisulfate	7646-93-7		Not Established	Not Established	
Lithium chloride (LiCl)	7447-41-8		Not Established	Not Established	
Lithium chlorate	36355-96-1		Not Established	Not Established	
Lithium hydroxide (Li(OH))	1310-65-2		Not Established	Not Established	

### 3. Hazard Identification

**Emergency Overview**

Corrosive to eyes and skin. Harmful if swallowed. Inhalation may cause damage to the

upper respiratory tract.

**Health Effects**

This product is severely irritating to the eyes and may cause burns and irreversible damage. Contact with the skin or mucous membranes may cause irritation or burns. This product will cause irritation to the throat, esophagus, and gastrointestinal tract if it is swallowed. Inhalation of dusts of this product may cause irritation or burns to the nasal passages and respiratory tract.

**Carcinogenicity**

None of the components present in this material are listed by IARC or NTP as a carcinogen.

**Reproductive Effects**

None known

**Routes of Entry**

Inhalation, Ingestion, Skin or Eye Contact

**4. First Aid Information**

**Eye Contact**

Flush immediately with plenty of water for at least 15 minutes, get medical attention.

**Skin Contact**

Flush with plenty of water for at least 15 minutes while removing contaminated clothing. Wash material off with soap and water. Get medical attention.

**Ingestion**

Call a physician immediately. Do not induce vomiting. Dilute by drinking water or milk. Never give anything by mouth to an unconscious person.

**Inhalation**

Fresh air should alleviate any respiratory discomfort. If breathing difficulties develop or persist, get medical attention.

**5. Fire Fighting Measures**

**Flash Point**

N/A

**Extinguishing Media**

Use water only. Do not use dry chemicals, carbon dioxide, or foam.

**Special Fire Fighting Procedures**

Fire fighters should wear full protective clothing including self-contained breathing apparatus.

**Unusual Fire Hazard**

Oxidizer. Contact with easily oxidizable or combustible materials can cause fire or explosion upon ignition from any source.

## 6. Accidental Release Measures

### Spill and Leak Procedures

Use proper personal protective equipment. Keep combustibles (wood, paper, oil, etc.) away from spilled material. With clean shovel, place into clean dry container, and cover loosely.

## 7. Handling and Storage

### Handling Procedures

Do not inhale. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Wash clothing after use.

### Storage Procedures

Keep container closed. Store in a dry place. Protect from atmospheric moisture.

## 8. Exposure Controls and Personal Protection

### Engineering Controls

Ventilation should be provided to control worker exposures and prevent health risk.

### Eye Protection

Safety glasses or goggles required.

### Protective Gloves

Rubber or other impervious materials.

### Respiratory Protection

If ventilation is not sufficient to effectively prevent buildup of dust, appropriate NIOSH/MSHA respiratory protection must be provided.

### Other Protective Equipment

Flowing water source should be available. Prevent contact with skin & clothing by using protective garments.

## 9. Physical and Chemical Properties

Physical State	Solid
Color/Appearance	White granular
Odor	Burning, chlorine-like odor
pH	11 (1% solution)
Boiling/Cond. Point	Not Applicable
Melting/Freezing Point	Decomposes @ 135°C (275°F)
Solubility	43% by wt. @ 25°C (77°F)
Vapor Density	Not Applicable
Vapor Pressure	Not Applicable

## 10. Stability and Reactivity

### Chemical Stability

Stable under normal conditions

**Conditions to Avoid**

Contact with combustible materials (wood, paper, oil). Contamination with moisture.

**Incompatible Materials**

Acids Strong oxidizing agents Combustible materials.

**Hazardous Decomposition Products**

Oxygen, lithium hydroxide, lithium chlorates.

**Hazardous Polymerization**

Will not occur.

**11. Toxicological Information**

Oral LD50 Rat: 555 mg/kg

**12. Ecological Information**

96 hour LC50 rainbow trout: 0.69 mg/L

**13. Disposal Considerations**

**Waste Disposal**

Dispose of waste in accordance with all federal, state, and local regulations.

**14. Transportation Information**

**DOT Shipping Name**

Oxidizing solid, n.o.s. (lithium hypochlorite, mixture)

**Hazard Class**

5.1, Oxidizer

**UN Number**

UN1479

**Packing Group**

PG III

NOTE: Oxidizers in Packing Group III in inner packagings not over 4.0 L (1 gallon) for liquids or 5.0 kg (11 pounds) for solids, packed in strong outer packagings, may be renamed "Consumer Commodity" and reclassified as ORM-D material.

**15. Regulatory Information**

**SARA 313**

Hazardous Component(s) subject to reporting under 40 CFR 372(SARA Title III, Sec. 313).

**TSCA**

Hazardous Component(s) subject to reporting on the TSCA List.

**WHMIS**

Hazardous Component(s) subject to WHMIS Ingredient Disclosure.

**16. Other Information**

EPA Reg. No. 57787-14

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