# MSDS Document

## Product ProTeam® LITHIUM SHOCK

### 1. Chemical Product and Company Identification

**Product** ProTeam® LITHIUM SHOCK

**MSDS ID** MSDS2441

**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** 3/31/2010

### 2. Composition and Information on Ingredients

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

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 reclassed as ORM-D material. Total package may not exceed 30 kg (66 pounds) gross weight.

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

NFPA Storage Classification:
NFPA Oxidizer Class 1

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