

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

FEB 9 1999

FMC Lithium Division  
Highway 161 - P.O. Box 795  
Bessemer City, NC 28016-0795

Attention: Jim T. Hill, Ph.D  
Agent for FMC Corporation, Lithium Division

Subject: Formula 2® SPA Shock  
EPA Registration Number 7675-9  
Your Submission Dated December 11, 1998

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provide that you make the labeling change listed below before you release the product for shipment bearing the amended labeling.

1. Delete the "CAS No. 13840-33-0" from the "ingredient statement".
2. Place the signal word "Danger" underneath "Keep out of Reach of Children".
3. Place the heading "Directions for Use" above "It is a Violation...".
4. ~~The Child Resistant Packaging is Required.~~

A stamped copy is enclosed for your records. Submit one copy of the final printed label before you release the product for shipment bearing the amended label.

If you have any questions concerning this letter, please contact Delores Williams at (703) 308-6372.

Sincerely,



Robert S. Brennis  
Product Manager (32)  
Regulatory Management Branch II  
Antimicrobials Division (7510C)

CONCURRENCES

SYMBOL	SURNAME	DATE						

7675-9 revised

# Formula 2<sup>®</sup> Spa Shock

Contains 35% available chlorine  
 EPA Reg No 7675-9  
 EPA Est No 7675 NC 1  
 US Patent No 3171814  
 Active ingredient, lithium hypochlorite..... 29%  
 CAS No 13840-33-0  
 Inert ingredients..... 71%

ACCEPTED  
 with COMMENTS  
 in EPA Letter # 7675-9

FEB 9 1999

Under the provisions of the Federal Insecticide, Fungicide, and Rodenticide Act, this product is registered under the name of Formula 2 Spa Shock.

7675-9

## DANGER

Keep out of reach of children  
 See other precautions and First Aid Statements

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.**

**SPA WATER CARE:** Effective use of all spa sanitizers depends on maintaining proper water balance. The following ranges are highly recommended:

- pH 7.4-7.8
- Total Availability 125-150 ppm
- Calcium Hardness 200-300 ppm
- Residual Available Chlorine 2.0-3.0 ppm
- Cyanuric Acid (Indoors) 0 ppm; (Outdoors) 30 ppm

**DIRECTIONS:** Formula 2 Spa Shock is compatible with all spa sanitizers, but always add spa chemicals separately. Use a reliable test kit with fresh solutions for pH and chlorine testing. Add Formula 2 Spa Shock daily when the water appears dingy or hazy from bather contamination. Turn off the air blower and circulation system. Sprinkle Formula 2 Spa Shock into water at the rate of one ounce per 250 gallons. The granules will dissolve completely within seconds and liberate 10 ppm of available chlorine. Allow the ensuing reaction to proceed 10-15 minutes before covering the spa. Turn on the circulation system. Bathers should not re-enter the spa until the available chlorine residual falls to 3.0 ppm.

Before using the spa, shower in order to avoid adding soap, lotions, or oils from the body into the water. Do not add food or beverages to the water. Avoid overloading the spa.

Formula 2 Spa Shock should not be used more than once a day. If the spa is used daily, it should be drained and fresh-filled about once a month.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMAN AND DOMESTIC ANIMALS

Corrosive: Causes irreversible eye damage or skin burns. May be fatal if swallowed. Harmful if inhaled. Do not get in eyes, on skin or on clothing. Avoid breathing dust. Wear goggles or face shield, protective clothing and rubber gloves when handling. Wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**PHYSICAL AND CHEMICAL HAZARDS**

Strong oxidizing agent. Mix only with water. Use clean, dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter, or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion. In case of contamination or decomposition, do not reseal container. If possible isolate container in open air or well-ventilated area. Flood with large volumes of water, if necessary.

**STORAGE AND DISPOSAL**

Store in a cool, dry place. Do not transfer into unlabeled containers. Close container tightly after each use. Protect from moisture and heat. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is not be reused or is contaminated and cannot be reused, dispose of in the same manner. Do not contaminate water, food or feed by storage or disposal.

**PRACTICAL TREATMENT (First Aid)**

**IF SWALLOWED:** Immediately call a Physician or Poison Control Center. Do not induce vomiting unless instructed by Physician or Poison Control Center. If so instructed drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or if available by administering syrup of ipecac. If person is unconscious, do not induce vomiting or give anything by mouth. Promptly drink large quantities of water. Avoid alcohol.

**IF ON SKIN:** Wash with plenty of soap and water. **Get medical attention.**

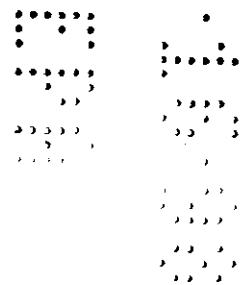
**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. **Get medical attention.**

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. **Get medical attention.**

**NOTE TO PHYSICIAN**

Lithium hypochlorite is corrosive to eyes, skin and mucous membranes with chemical burns (caustic). Treatment is dilution/flushing of site with copious amounts of water with controlled removal of exposure followed by symptomatic and supportive care to maintain life functions. Consideration should be given to careful endoscopy as stomach or esophageal burns, perforations or strictures may occur. Probable mucosal damage may contraindicate the use of gastric lavage. Careful gastric lavage with an endotracheal tube in place should be considered. Observation may be warranted. Medical advice - 303 593 9048 (collect)

A Lithco product from



**FMC Corporation Lithium Division**  
**Bessemer City, North Carolina**  
**Formula 2 and Lithco are trademarks of FMC Corporation**

**Emergency Telephone Numbers (24 hours)**  
**Medical 303 595 9048 (collect)**  
**Transportation Chemtrec 800 424 9300**  
**Other emergency FMC Corporation Lithium Division**  
**704 629 5361**

**Lithium hypochlorite, dry**  
**(UN No. 1471)**  
Net wt 2 lbs

