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Regal LTM

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Regal LTM GENERAL USE: Swimming pool sanitizer. CHEMICAL FAMILY: Hypochlorite

MANUFACTURER

Alliance Packaging, Inc. 109 Northpark Blvd., Suite 400 Covington, LA 70433-5001 Customer SERVICE: (800) 959-7946

24 HR. EMERGENCY TELEPHONE NUMBERS

 CHEMTREC (Transportation)
 (800) 424-9300

 Medical
 (800) 255-3924

COMMENTS:

EPA Registration Number: 5185-323-42177

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt.%
Lithium Hypochlorite	13840-33-0	29
Sodium Sulfate	7757-85-6	13
Potassium Sulfate	7778-80-5	6
Lithium Chloride	7447-41-8	4
Lithium Carbonate	554-13-2	2
Lithium Chlorate	36355-96-1	2
Lithium Hydroxide	1310-65-2	1

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

White, granular solid with chlorine odor.

IMMEDIATE CONCERNS:

DANGER: Highly Corrosive: Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or safety glasses and rubber gloves when handling this product. Irritating to nose and throat. Avoid breathing dust and fumes. Remove contaminated clothing and wash before reuse.

POTENTIAL HEALTH EFFECTS

EYES:

DANGER: Highly Corrosive. Causes eye damage. Do not get in eyes.

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SKIN:

DANGER: Highly Corrosive. Causes skin damage. Do not get on skin.

INGESTION:

May be fatal if swallowed.

INHALATION:

Irritating to nose and throat. Avoid breathing dust or vapors.

ROUTES OF ENTRY:

Skin Contact, Inhalation, Ingestion, Eye Contact.

COMMENTS HEALTH:

There are no known chronic hazards.

4. FIRST AID MEASURES

EYES:

If contact with eyes occurs: Immediately flush with cold water for at least 15 minutes. Then get immediate medical attention.

SKIN:

If contact with skin: Brush off excess chemical and flush skin with cold water for at least 15 minutes. If irritation persists, get medical attention.

INGESTION:

If swallowed: Drink large amounts of water. Do not induce vomiting. Avoid alcohol. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician or poison control center immediately.

INHALATION:

If inhaled: Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If not breathing, give artificial respiration. Call a physician immediately.

NOTES TO PHYSICIAN:

Lithium hypochlorite is corrosive to eyes, skin and mucous membranes. Consideration should be given to careful endoscopy as stomach or esophageal burns, perforations or strictures may occur. Careful gastric lavage with an endotracheal tube in place should be considered. Observation may be warranted. Treatment is controlled removal of exposure with symptomatic and supportive care.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Applicable AUTOIGNITION TEMPERATURE: Not Applicable

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GENERAL HAZARD:

Strong oxidizer. Contact with combustible material may cause a fire.

EXTINGUISHING MEDIA:

In case of fire or smoke, call the fire department. Do not attempt to extinguish the fire without a self-contained breathing apparatus (SCBA). Do not let the fire burn. Flood with copious amounts of water. DO NOT use ABC or other dry chemical extinguishers since there is the potential for a violent reaction.

HAZARDOUS COMBUSTION PRODUCTS: Oxygen and toxic chlorine gases.

FIRE FIGHTING PROCEDURES:

Firefighters should wear full protective clothing and self contained breathing apparatus (SCBA). Throughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Using appropriate protective clothing and safety equipment, contain spilled material. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not use floor sweeping compounds to clean up spills. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form. Do not transport wet or damp material. Keep product out of sewers, watersheds and water systems. Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Dispose of according to local, state and federal regulations.

7. HANDLING AND STORAGE

HANDLING:

STRONG OXIDIZING AGENT: Do not mix with other chemicals. Mix only with water. Never add water to product. Always add product to large quantities of 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 will start a chemical reaction and generate heat, hazardous gas, possible 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 area with large volumes of water.

STORAGE:

Keep this product in original closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. Do not contaminate water, food or feed by storage or disposal or cleaning of equipment. Do not store above 125 F (52 C).

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

		EXPOSURE LIMITS				
		OSHA PE	EL ACG I/m ³ ppm	IH TLV mg/m ³	SUPPLI ppm	ER OEL mg/m ³
Lithium Hypochlorite	TWA	N/E ^[1]	N/E			
Sodium Sulfate	TWA	N/E	N/E			
Potassium Sulfate	TWA	N/E	N/E			
Lithium Chloride	TWA	N/E	N/E			
Lithium Carbonate	TWA	N/E	N/E			
Lithium Chlorate	TWA	N/E	N/E			
Lithium Hydroxide	TWA	N/E	N/E			

OSHA TABLE COMMENTS:

1. N/E = Not Established

ENGINEERING CONTROLS:

General room ventilation plus local exhaust should be used to minimize exposure to dust/vapors.

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE:

Wear goggles or safety glasses with side shields when handling this product.

SKIN:

Wear rubber gloves when handling this product. Avoid contact with skin.

RESPIRATORY:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

WORK HYGIENIC PRACTICES:

Remove and wash contaminated clothing before reuse.

OTHER USE PRECAUTIONS:

Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid ODOR: Chlorine APPEARANCE: Granules

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COLOR: White pH: 11(1% solution @ 25 C) THERMAL DECOMPOSITION: 135°C SOLUBILITY IN WATER: 43g/100g water SPECIFIC GRAVITY: 0.9 to 1.0 g/cc

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

High temperature. Poor ventilation. Contamination. Moisture/high humidity.

STABILITY:

This product is stable under normal conditions.

POLYMERIZATION:

Hazardous polymerization will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxygen and toxic chlorine gases.

INCOMPATIBLE MATERIALS:

This is a strong oxidizing agent. Avoid contact with water on concentrated material in the container. Keep away from household soap, suntan lotion, paint products, solvents, acids, beverages, lighted cigarettes, combustible materials, garbage, dirt, dirty rags, organic materials and other swimming pool/spa chemicals in their concentrated forms. Mixing with any of the above materials can initiate a hazardous decomposition. Contact with acids or moisture evolves chlorine gas. Reacts with ammonia, urea and amines (can form reactive and toxic chloramines). Metal oxides can cause decomposition.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: 8,100 mg/kg (rabbit) ORAL LD₅₀: 555 mg/kg (rat)

EYE EFFECTS: This product is corrosive to eyes.

SKIN EFFECTS:

This product is corrosive to skin.

SENSITIZATION:

This product is not a skin sensitizer.

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CARCINOGENICITY:

This product is not listed as a carcinogen by IARC. This product is not listed as a carcinogen by NTP. This product is not listed as a carcinogen by OSHA.

MUTAGENICITY:

This product is not mutagenic in several in vitro tests.

REPRODUCTIVE EFFECTS:

This product did not cause developmental effects in a study with laboratory animals.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

This pesticide is toxic to fish and aquatic organisms. Do not disharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or ther 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.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Pesticide wastes are toxic. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire.

EMPTY CONTAINER:

Do not reuse container. Rinse thoroughly before discarding in trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION) PROPER SHIPPING NAME: Lithium Hypochlorite, Dry PRIMARY HAZARD CLASS/DIVISION: 5.1 UN/NA NUMBER: 1471 PACKING GROUP: II

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15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT) 313 REPORTABLE INGREDIENTS: This product contains lithium carbonate which is a substance subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT) CERCLA REGULATORY: This product or its components are not listed.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product or its components are not subject to export notification. TSCA STATUS: All components except for Lithium Chlorate, an impurity, are listed.

OSHA HAZARD COMM. RULE: Product is hazardous by definition of the Hazardous Communication Standard.

CLEAN WATER ACT: Not Listed.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This product is a registered pesticide.

SDWA (SAFE DRINKING WATER ACT): Not listed.

FDA (FOOD AND DRUG ADMINISTRATION): Not listed.

DEA (DRUG ENFORCEMENT PRECURSOR & ESSENTIAL CHEMICALS) LISTED SUBSTANCE: Not listed.

CANADA

WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM): Proposed WHMIS Classification:

C - Oxidizing Material

E - Corrosive Material

16. OTHER INFORMATION

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NFPA CODES

HEALTH: 3 FIRE: 0 REACTIVITY: 1

NFPA STORAGE CLASSIFICATION:

NFPA Oxidizer Class 1

HMIS CODES

HEALTH: 3 FIRE: 0 REACTIVITY: 1 PROTECTION: B

MANUFACTURER DISCLAIMER:

IMPORTANT: This information is given without a warranty or guarantee. No suggestions for use are intended or shall be construed as a recommendation to infringe any existing patents or violate any Federal, State or local laws. Safe handling and use is the responsibility of the customer. Read the label before using this product. This information is true and accurate to the best of our knowledge.