

Material Safety Data Sheet

Product: Leslie's Swimming Pool Supplies - 1" Chlor Tabs, 3" Jumbo Tabs, Chlor Sticks, Floating Chlorinator, Mighty Tabs; PoolFresh 3" Tablets

1. Chemical Product and Company Identification

Trade Names of this Product: Leslie's Swimming Pool Supplies - 1" Chlor Tabs, 3" Jumbo Tabs, Chlor Sticks, Floating Chlorinator, Mighty Tabs; PoolFresh 3" Tablets

MSDS ID OxyChem M4426_NA_US 2/29/2008

Revision Date 6/25/2008

Manufacturer:

Occidental Chemical Corporation
5005 LBJ Freeway, Suite 2200
P.O. Box 809050
Dallas, Texas 75380-9050

Phone Numbers:

EMERGENCY TELEPHONE: 1-800-733-3665 or 1-972-404-3228

Registrant:

LPM Manufacturing, Inc.
3925 East Broadway Rd., Suite 100
Phoenix, AZ 85040
Phone Number
(602) 366-3999

Emergency Phone: (800) 424-9300

2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %
Trichloro-s-Triazinetrione	87-90-1	98 – 100 %
Boric Acid	10043-35-3	0-1 %

3. Hazard Identification

NFPA Ratings:

Health: 2 Fire: 0 Reactivity: 2

GHS Classification:

Acute toxicity, Category 2

GHS Signal Word:

DANGER

GHS Hazard Statement:

Fatal if inhaled

Harmful if swallowed

May be harmful in contact with skin.

EMERGENCY OVERVIEW

COLOR: White

PHYSICAL FORM: Tablet

ODOR: Chlorine odor

SIGNAL WORD: DANGER

MAJOR HEALTH HAZARDS: CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGES. MAY CAUSE BURNS TO MOIST SKIN IF NOT PROMPTLY REMOVED. MAY BE FATAL IF INHALED. HARMFUL IF SWALLOWED OR ABSORBED THROUGH THE SKIN. IRRITATING TO NOSE AND THROAT.

PHYSICAL HAZARDS: Strong oxidizer

ECOLOGICAL HAZARDS: This pesticide is toxic to fish and aquatic organisms.

PRECAUTIONARY STATEMENTS: Do not get in eyes, on skin, or on clothing. Do not breathe dust, vapor or spray mist. Wear goggles, face shield or safety glasses. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

POTENTIAL HEALTH EFFECTS:**Inhalation:**

This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.15% by weight. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. May cause severe irritation of the respiratory tract with coughing, choking, pain and possibly burns of the mucous membranes. If significant or prolonged exposure occurs, pulmonary edema may develop either immediately or more often within a period of 5-72 hours. The symptoms may include tightness in the chest, dyspnea, frothy sputum, cyanosis, and dizziness. Physical findings may include moist rales, low blood pressure and high pulse pressure. Severe cases may be fatal.

Skin Contact:

This material is corrosive to the skin. Direct contact with wet material or moist skin may cause severe irritation, pain, and possibly burns.

Eye Contact:

This material is corrosive to the eye. Direct contact may cause severe irritation, pain and burns, possibly severe, and permanent damage including blindness. The degree of injury depends on the concentration and duration of contact.

Ingestion:

Not a likely route of exposure. Harmful if swallowed. Ingestion may cause immediate pain and severe burns of the mucous membranes. There may be discoloration of the tissues. Swallowing and speech may be difficult at first and then almost impossible. The effects on the esophagus and gastrointestinal tract may range from irritation to severe corrosion. Edema of the epiglottis and shock may occur.

TARGET ORGANS: Cardiovascular system, kidneys, and bladder**Chronic Hazards:**

Based on animal studies, exposure to concentrations of monosodium cyanurate at the solubility limit may cause cardiovascular, kidney and urinary bladder effects.

Physical Hazards:

Not applicable

CARCINOGEN STATUS:

OSHA: No

NTP: No

IARC: No

4. First Aid Information

Inhalation:

Move person to fresh air. Give artificial respiration if not breathing. If breathing is difficult, qualified personnel should administer oxygen. If respiration or pulse has stopped, have a trained person administer Basic Life Support (Cardio- Pulmonary Resuscitation/ Automatic External Defibrillator) and CALL FOR EMERGENCY SERVICES IMMEDIATELY.

Skin:

Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with soap and water. Thoroughly clean and dry contaminated clothing and shoes before reuse. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

Eye:

Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Washing eyes within several seconds is essential to achieve maximum effectiveness. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. GET MEDICAL ATTENTION IMMEDIATELY.

Ingestion:

Never give anything by mouth to an unconscious or convulsive person. If swallowed do not induce vomiting. Give water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. GET MEDICAL ATTENTION IMMEDIATELY.

Note to Physician:

Probable mucosal damage may contraindicate the use of gastric lavage.

5. Fire Fighting Measures

Flash Point Not applicable

FP Method Not applicable

Flammable limits:

This material is not flammable.

Extinguishing Media:

Flood with water. Do not use dry chemicals, carbon dioxide or halogenated extinguishing agents.

Fire and Explosion Hazards:

Negligible fire hazard. If heated by outside source to temperatures above 240 C (464 F), this product will undergo decomposition with the evolution of noxious gases but no visible flame. Wet material may generate nitrogen trichloride, an explosion hazard.

Fire-fighting Equipment/ Instructions:

Consider evacuation of personnel located downwind. Keep unnecessary people away, isolate hazard area and deny entry. Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Wear NIOSH approved positive-pressure self-contained breathing apparatus in pressure-demand mode. Material, which appears undamaged except for being damp on the outside, should be opened and inspected immediately. DO NOT attempt to reseal contaminated drums. Damp material should be neutralized to a non-oxidizing state. Contact OxyChem for instructions for handling and disposal of damp material.

Sensitivity to Mechanical Impact:

Not sensitive

Sensitivity to Static Discharge:

Not sensitive

Hazardous Combustion Products:

Thermal decomposition or combustion products: chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, oxides of carbon, phosgene

6. Accidental Release Measures

Personal Protection:

See Section 8 (Exposure Control and Personal Protection)

Environmental Hazards:

Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

Spill Cleanup:

Keep unnecessary people away, isolate hazard area and deny entry. DO NOT add water to spilled materials. DO NOT use floor-sweeping compounds to clean up spills. Sweep and scoop spilled material into clean, dedicated equipment. Every attempt should be made to avoid mixing spilled material with other chemicals or debris when cleaning up. DO NOT attempt to reseal contaminated drums. DO NOT transport wet or damp material. Damp material should be neutralized to a non-oxidizing state. Contact OxyChem for instructions for handling and disposal of damp material.

CERCLA RQ:

Not Applicable

7. Handling and Storage

Handling:

Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or dust when opening container. Avoid creation of dust. Wash thoroughly after handling. Never add water to this product. Always add product to large quantities of water. Use clean, dry utensils. Do not add the products to any dispensing device containing residuals of other products.

Storage:

Store and handle in accordance with all current regulations and standards. (NFPA Oxidizer Class 1.) Do not allow water to get in container. If liner is present, tie after each use. Keep container tightly closed and properly labeled. Store containers on pallets. Keep away from food, drink and animal feed. Keep separated from incompatible substances (see Section 10 of the MSDS). Product has an indefinite shelf life if stored in original container in a cool, dry place.

8. Exposure Controls and Personal Protection

Exposure Limits:

Tablets:

Chlorine and chlorine compounds may be found in slight amounts in the headspace of the containers of this product.

Trichloro-s-triazinetrione:

0.5 mg/m³ recommended TWA 8 hour(s) (internal Occupational Exposure Limit)

Chlorine:

1 ppm (3 mg/m³) OSHA ceiling

0.5 ppm (1.5 mg/m³) OSHA TWA (vacated by 58 FR 35338, June 30, 1993)

1 ppm (3 mg/m³) OSHA STEL (vacated by 58 FR 35338, June 30, 1993)

0.5 ppm ACGIH TWA

1 ppm ACGIH STEL

Boric Acid:

Borate Compounds, Inorganic:

2 mg/m³ ACGIH TWA (inhalable fraction)

6 mg/m³ ACGIH STEL (inhalable fraction)

Biological Limit Values:

Not available for this product

Engineering Controls:

Use only in well ventilated areas. Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

Respiratory Protection:

A NIOSH approved respirator with N95 (dust, fume, and mist) filters may be permissible under certain circumstances. The added protection of a full-face piece respirator is required when visible dusty conditions are encountered and/or eye irritation may occur. Acid gas cartridges with N95 filters are required when fumes or vapor may be generated. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant the use of a respirator.

Skin Protection:

Wear protective clothing to minimize skin contact. When potential for contact with dry material exists, wear disposable coveralls suitable for dust exposure. Contaminated clothing should be removed and laundered before reuse.

Eye Protection:

Wear chemical safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Hand Protection:

Wear suitable gloves.

Protective Material Types: Butyl rubber, natural rubber, neoprene, nitrile, polyvinyl chloride (PVC), Tyvek

9. Physical and Chemical Properties

Physical State Solid

Specific Gravity 2.1 @ 25 C (gm/L)

Bulk Density 63-66 lbs./ ft³ (loose)

Color/Appearance White tablets

Odor Chlorine odor

Boiling/Cond. Point Not applicable

Melting/Freezing Point 478 F (248 C)/not applicable

Solubility 1.2 mg/100g @ 20 C (water)

Evaporation Rate Not applicable

VOC % Not applicable

Percent Volatile Not applicable

Molecular Weight 232.4

Molecular Formula C₃N₃O₃Cl₃

Viscosity Not applicable

Vapor Density Not applicable

Vapor Pressure <0.002 Pa @20 C

Decomposition Point >446 F (247 C)

pH 2.9 – 3.5 @ 25C (1% solution)

10. Stability and Reactivity

Stability:

Stable at normal temperatures and pressure.

CONDITIONS TO AVOID:

Do not get water inside container. Wet material may generate nitrogen trichloride, an explosion hazard. Avoid contact with easily oxidizable organic material.

Materials to Avoid (Incompatibilities):

Acids, ammonia, bases, floor sweeping compounds, calcium hypochlorite, reducing agents, organic solvents and compounds.

Hazardous Decomposition Products:

Thermal decomposition or combustion products: chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, oxides of carbon, phosgene

Polymerization:

Will not polymerize

11. Toxicological Information

Irritation Data:

PRIMARY SKIN IRRITATION: Severe Irritation, Corrosive (rabbit, 24hr);

PRIMARY EYE IRRITATION: Severe Irritation, Corrosive (rabbit, 24hr)

Toxicity Data:

809 mg/kg oral-rat LD50

>2,000 mg/kg skin-rabbit LD50

>5,000 mg/kg skin-rat LD50

0.09-0.29 mg/L/4 hours inhalation-rat LC50

Monosodium cyanurate was administered via drinking water to rats for 104 weeks at concentrations of 0, 400, 1,200, 2,400, and 5,375 ppm (solubility limit). No compound-related effects on body weights, clinical signs of toxicity or food or water consumption were noted during the study. An increased incidence of gross lesions in the urinary tract, calculi in the kidney and lesions in the heart were observed in males receiving the highest dose level of 5,375 ppm (solubility limit). The health effects seen in this study were due to precipitation of the test substance in the urinary tract when the test substance was fed at the solubility limit. Adverse health effects were not seen at lower doses where precipitation did not occur. **MUTAGENIC DATA:** Not mutagenic in 5 salmonella strains and 1 E. coli strain with or without mammalian microsomal activation. **REPRODUCTIVE EFFECTS DATA:** There are no known or recorded effects on reproductive function of fetal development.

12. Ecological Information

Ecotoxicity:

FISH TOXICITY: This pesticide is believed to be highly toxic to aquatic life.

0.23-0.40 mg/L 96 hours LC50 Bluegill Sunfish

0.24-0.37 mg/L 96 hours LC50 Rainbow Trout

INVERTEBRATE TOXICITY:

0.17-0.80 mg/L 48 hours LC50 water flea

ALGAL TOXICITY:

<0.5 mg/L 3 hours EC50 green algae

OTHER TOXICITY:

1,021-1,630 mg/kg oral- Mallard duck LD50

1638 mg/kg oral- N. Bobwhite Quail LD50

>10,000 ppm diet-Mallard duck LC50

7,422 ppm diet-N. Bobwhite Quail LD50;

Fate and Transport:

BIODEGRADATION: This material is subject to hydrolysis. Cyanuric acid produced by hydrolysis is biodegradeable.

PERSISTENCE: This material is believed not to persist in the environment. Free available chlorine is rapidly consumed by reaction with organic and inorganic materials to produce chloride ion. The stable degradation products are chloride ion and cyanuric acid.

BIOCONCENTRATION: Trichloroisocyanuric acid hydrolyzes in water liberating chlorine and cyanuric acid. These products are not bioaccumulative.

OTHER ECOLOGICAL INFORMATION: 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 into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of EPA.

13. Disposal Considerations

Classification:

This material is a registered pesticide.

Disposal Method:

Use or reuse if possible. Dispose of in accordance with all applicable regulations. 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 and fire. DO NOT transport wet or damp material. Damp material should be neutralized to a non-oxidizing state. Contact OxyChem for instructions for handling and disposal of damp material. See product label for container disposal information. May be subject to disposal regulations : U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

14. Transportation Information

U.S. DOT 49 CFR 172.101:

PROPER SHIPPING NAME: Trichloroisocyanuric acid, dry

ID NUMBER: UN2468

HAZARD CLASS OR DIVISION: 5.1

PACKING GROUP: II

LABELING REQUIREMENTS: 5.1

15. Regulatory Information

CERCLA:

Not regulated

SARA Title III:

Section 302: Not regulated

Section 313: Not regulated

Section 311/312: Acute, Fire, and Reactivity Hazard.

USA TSCA:

All the components of this substance are listed on or are exempt from the inventory.

16. Other Information

HMIS RATINGS

Health: 3 Flammability: 0 Reactivity: 2

Additional Preparation Information:

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