

Material Safety Data Sheet

Product: Leslie's Swimming Pool Supplies Soda Ash

1. Chemical Product and Company Identification

Trade Name of this Product: Leslie's Swimming Pool Supplies Soda Ash

MSDS ID General Chem 1/07

Revision Date 6/20/2008

Repackager

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 %
Sodium Carbonate	497-19-8	99.8%

3. Hazard Identification

NFPA Ratings:

Health: 2 Fire: 0 Reactivity: 0 Specific: N/A

EMERGENCY OVERVIEW

White, odorless, granular solid. Product is non-combustible. Reacts with acids to release carbon dioxide gas and heat. May irritate skin and eyes. Dusts may irritate respiratory tract. Not expected to be toxic to the environment, nor to aquatic organisms. Avoid simultaneous exposure to soda ash and lime dust. In the presence of moisture (i.e. perspiration) the two materials combine to form caustic soda (NaOH), which may cause burns.

Eye Contact:

Irritating to the eyes.

Skin Contact:

Prolonged contact may cause skin irritation (red, dry, cracked skin).

Inhalation:

Prolonged inhalation of product dusts may irritate nose, throat, and lungs.

Ingestion:

Although low in toxicity, ingestion may cause nausea, vomiting, stomachache, and diarrhea.

Chronic Hazards:

Excessive long-term contact may produce "soda ulcers" on hands and perforation of the nasal septum. Sensitivity reactions may occur from prolonged and repeated exposure. This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as a probable or suspected human carcinogen.

4. First Aid Information

Eye:

Immediately flush with water for at least 5 minutes lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist as necessary.

Skin:

Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

Inhalation:

Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

Ingestion:

Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Contact a doctor or poison control center.

Advice to Physicians:

While internal toxicity is low, irritant effects of high concentrations may produce corneal opacities, and vesicular skin reactions in humans with abraded skin only. Treatment is symptomatic and supportive.

5. Fire Fighting Measures

Flash Point None

FP Method Not applicable

Flammable limits:

Not applicable

Fire/Explosion Hazards:

Not applicable

Extinguishing Media:

Not combustible, use extinguishing method suitable for surrounding fire.

Fire-fighting Equipment/ Procedures:

Wear full protective clothing and self-contained breathing apparatus.

Hazardous Combustion:

Carbon Dioxide

Sensitive to Impact: None

Sensitive to Static Discharge: None

6. Accidental Release Measures

Personal Protection:

See section 8 (Exposure Controls and Personal Protection).

Environmental Hazards:

Prevent large quantities of this product from contacting vegetation or waterways; large spills could kill vegetation and fish.

Cleanup:

This product, if spilled, can be recovered and re-used if contamination does not present a problem. Vacuum or sweep up the material. If the spilled product is unusable due to contamination, consult state or federal environmental agencies for acceptable disposal procedures and locations. See section 13 (Disposal Considerations).

Notification Requirements:

Federal regulations do not require notification for spills of this product. State and local regulations may contain different requirements; consult local authorities.

CERCLA RQ:

Not Applicable

7. Handling and Storage

Handling:

Use air conveying/mechanical systems for bulk transfer to storage. For manual handling of bulk transfer use mechanical ventilation to remove airborne dust from railcar, ships or trucks. Use approved respiratory protection when ventilation systems are not available. Selection of respirators is based on the dust cloud generation. Keep material out of lakes, streams, ponds, and sewer drains.

Avoid eye contact or prolonged skin contact. Avoid breathing dusts. When dissolving, add to water cautiously and with stirring; solution can get hot. Use good personal hygiene and housekeeping.

Storage:

Store in a cool, dry area, away from acids. Prolonged storage may cause product to cake from atmospheric moisture.

8. Exposure Controls and Personal Protection

Engineering Controls:

Where possible, provide general mechanical and/or local exhaust ventilation to prevent release of airborne dust into the work environment. Eye wash facility should be provided in storage and general work area.

Respiratory Protection:

Whenever dust in the worker's breathing zone cannot be controlled with ventilation or other engineering means, workers should wear respirators or dust masks approved by NIOSH/MSHA, EU CEN or comparable certification organization to protect them against airborne dust.

Skin Protection:

Wear long-sleeve shirt and trousers and impervious gloves for routine product use. Cotton gloves are sufficient for dry product; wear impervious (e.g. rubber, neoprene, etc.) gloves when handling solution.

Eye/Face Protection:

For dusty or misty conditions or when handling solutions where there is reasonable probability of eye contact, wear chemical safety goggles and hardhat. Under these conditions do not wear contact lenses. Otherwise, appropriate eye and face protection equipment (ANSI Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended.

Exposure Guidelines:

Federal guidelines treat the ingredient(s) in this product as a nuisance dust, as no product-specific guidelines have been issued for exposure. As with all nuisance dusts, worker breathing zone concentrations should be measured by validated sampling and analytical methods. The following limits (OSHA and MSHA) apply to this material:

Particulates Not Otherwise Regulated:

OSHA (PEL/TWA): 15 mg/m³ (total dust); 5 mg/m³ (ramp fraction)

MSHA (PEL/TWA): 10 mg/m³ (total dust)

Avoid simultaneous exposure to soda ash and lime dust. In the presence of moisture (i.e. perspiration) the two materials combine to form caustic soda (NaOH), which may cause burns.

The information noted above provides general guidance for handling this product. Specific work environments and material handling practices will dictate the selection and use of personal protective equipment (PPE).

9. Physical and Chemical Properties

Physical State Solid
Specific Gravity 2.533 (vs. water)
Bulk Density g/l Dense grades: 0.9-1.1
Natural light grade: 0.7- 0.9
Synthetic light grade: 0.5 – 0.7
Color/Appearance White, granular solid
Odor None
Boiling/Cond. Point decomposes (boiling point)
Melting/Freezing Point 854°C (1569°F) (melting point)
Solubility Complete
Evaporation Rate Not applicable
VOC % not Applicable
Percent Volatile 0%
Molecular Formula Na₂CO₃
Viscosity Not applicable
Vapor Density Not applicable
Vapor Pressure Not applicable
pH (1% solution) 11.3

10. Stability and Reactivity

Stability:

Stable

CONDITIONS TO AVOID:

Contact with acids will release carbon dioxide, heat.

Contact with lime dust in the presence of moisture can produce corrosive sodium hydroxide.

Materials to Avoid (Incompatibilities):

May react with aluminum, acids, fluorine, lithium, and 2,4,6-Trinitrotoluene.

Hazardous Decomposition Products:

When heated to decomposition, carbon dioxide is released.

Polymerization:

Will not occur

Other Precautions:

When dissolving, add to water cautiously and with stirring; solutions can get hot.

11. Toxicological Information

Acute Data:

Eye: Severe irritant (50 mg, rabbit).

Skin: Mild irritant (500mg.24hr, rabbit). Minor irritation may occur on abraded skin. Not a sensitizer (Tested at 0.25% solution).

Oral: LD₅₀ Rat: 4,090 mg/kg

Inhalation: LC₅₀, rat, 2hr 2.3 mg/l

24-hour LC₅₀: 800mg/m³, 20h exposure (guinea pig) (moderate toxicity)

Chronic Data:

Excessive, long-term contact may produce "soda ulcers" on hands and perforation of the nasal septum. Sensitivity reactions may occur from prolonged and repeated exposure.

Carcinogenicity:

Not designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

12. Ecological Information

Acute Ecotoxicity:

96 – hour LC₅₀: 265-565 mg/l (daphnia magna) (low toxicity)
300-320 mg/l (blue gill sunfish) (low toxicity)

96 – hour TL_m: 1,200 mg/l (mosquito-fish)

48 – hour TL_m: 840 mg/l (mosquito-fish)

48 – hour EC₅₀: 265 mg/l (daphnia magna)

5 Day EC₅₀: 242 mg/l (Nitzscheria linearis)

Chronic Ecotoxicity:

7 Day EC, biomass: 14 mg/l (phytoplankton)

Mobility:

Air: Not Applicable

Water: Considerable solubility and mobility.

Soil/sediments: Non-significant absorption

Abiotic Degradation:

Water (hydrolysis): degradation's products: carbonate (pH>10)/ carbonic acid / carbon dioxide (pH<6)

Soil: Hydrolysis as a function of pH.

Biotic Degradation:

Aerobic/anaerobic: Not applicable (Inorganic compound)

Potential for Bioaccumulation: Not applicable (ionizable inorganic compound)

Observed effects are related to alkaline properties of the product. Product is not significantly hazardous for the environment.

13. Disposal Considerations

Classification:

When this product is discarded or disposed of, as purchased, it is neither a characteristic nor a listed hazardous waste according to U.S. Federal RCRA regulations (40 CFR 261).

Disposal Method:

As a non-hazardous waste the material may be disposed of in a landfill in accordance with government regulations; check local or state regulations for applicable requirements prior to disposal. Any processing, usage, alteration, chemical additions to, or contamination of the product may alter the disposal requirements. Under Federal regulations, it is the generator's responsibility to determine if a waste is a hazardous waste.

14. Transportation Information

DOT Status:

This material is not a regulated hazardous material for transportation.

15. Regulatory Information

CERCLA:

No CERCLA Reportable Quantity has been established for this material.

SARA Title III:

Section 302: Not an Extremely Hazardous Substance

Section 313: Not a Toxic Chemical

Section 311/312: Hazard Categories- Immediate (Acute)

USA TSCA:

This product is listed on the TSCA Inventory of Chemical Substances. No other TSCA rules affect this product.

STATE REGULATIONS:

This product does not contain any components that are regulated under California Proposition 65.

16. Other Information**HMIS:**

Health: 2 Flammability: 0 Reactivity: 0 Special: None

Additional Preparation Information:

The above information is based upon information LPM Manufacturing, Inc. believes to be reliable and is supplied for informational purposes only. LPM Manufacturing, Inc. disclaims any liability for damage which results from the use of the above information and nothing contained therein shall constitute a guarantee, warranty (including fitness for a particular purpose) or representation by LPM Manufacturing, Inc. with respect to the accuracy or completeness of the data, the product described or its use for any specific purpose even if that purpose is known to LPM Manufacturing, Inc. The final determination of the suitability of the information, the manner of use of the information or product and potential infringement is the sole responsibility of the user.