

# Safety Data Sheet

## Lithium Carbonate

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Lithium Carbonate

**Catalog Numbers:** SO-568

**Company Identification:** Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

### Section 2 - Hazards Identification

#### GHS Classifications

H302-Acute toxicity, oral: 4

H313-Acute toxicity, dermal: 5

H319-Serious eye damage/eye irritation: 2A

H332-Acute toxicity, inhalation: 4

#### Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Danger

#### Hazard Statements:

H302-Harmful if swallowed

H313-May be harmful in contact with skin

H319-Causes serious eye irritation

H332-Harmful if inhaled

#### Precautionary Statements:

P261-Avoid breathing dust/fume/gas/mist/vapours/spray.

P264-Wash thoroughly after handling.  
P270-Do not eat, drink, or smoke when using this product.  
P271-Use only outdoors or in a well-ventilated area.  
P301+P312-If swallowed: Call a Poison Center/doctor if you feel unwell.  
P280-Wear eye protection/face protection.  
P302+P312-If on skin: Call a Poison Center/doctor if you feel unwell.  
P304+P340-If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312-Call a Poison Center/doctor if you feel unwell.  
P330-Rinse mouth.  
P337+P313-If eye irritation persists: Get medical advice/attention.  
P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
554-13-2	Lithium carbonate	≤100

### Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek immediate medical advice.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical advice.

**Oral Exposure:** If swallowed, seek immediate medical advice. Rinse mouth with water and drink small quantities of water (stop if the exposed person feels sick as vomiting may be dangerous).

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

### Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

**Hazardous Combustion Products:** Not available.

**Flash Point:** Not applicable

**Autoignition Temperature:** Not available

**Explosion Limits, Lower:** Not available

**Upper:** Not available

**NFPA Rating:** (estimated) Health: 2; Flammability: 0; Instability: 0

## Section 6 - Accidental Release Measures

### **Procedure(s) of Personal Precaution(s):**

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation. Avoid dust formation.

**Methods for Cleaning up:** Carefully sweep up and containerize for proper disposal. Avoid dust formation. Do not release to the environment. Do not release to drains.

## Section 7 - Handling and Storage

Use care when handling. Wear person protective equipment. Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Minimize dust formation and accumulation. Store in a tightly closed container in a cool, dry, and well-ventilated area. Keep away from incompatible materials.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

**Exposure Limits:**

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA – Final PELs
Lithium Carbonate CAS#554-13-2	Not listed	Not listed	Not listed

Section 9 - Physical and Chemical Properties

**Physical State:** Solid (powder)

**Appearance:** White

**Odor:** Odorless

**Vapor Pressure:** Not available

**Odor Threshold:** Not available

**Vapor Density:** Not available

**pH:** 9.0-11.0 at 1 g/L

**Relative Density:** Not available

**Melting point/freezing point:** 618°C (1144.4°F)

**Solubility:** 8.4 g/L at 20°C (68°F)

**Boiling Point:** 1310°C (2390°F)

**Flash Point:** Not applicable

**Evaporation Rate:** Not applicable

**Flammability (solid, gas):** Not available

**Partition coefficient: n-octanol/water:** Not applicable

**Autoignition Temperature:** Not available

**Decomposition Temperature:** Not available

**Viscosity:** Not available

**Specific Gravity/Density:** Not available

Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, excess heat. Avoid dust formation.

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Not available.

Section 11 - Toxicological Information

**CAS# 554-13-2 Lithium Carbonate: RTECS#: OJ5800000**

LD50 Oral: 525 mg/kg (rat)

LD50 Dermal: >3000 mg/kg (rabbit)

LC50 Inhalation: >2.17 mg/L 4h (rat)

**Carcinogenicity:** Lithium Carbonate CAS#554-13-2 is not listed by IARC, NTP, ACGIH, or OSHA. Lithium Carbonate is listed by California Prop. 65 as a developmental carcinogen.

**Information on the likely routes of exposure:** Routes of entry anticipated: oral, dermal, inhalation, and eye.

**Epidemiology:** Not available.

**Teratogenicity:** Not available.

**Reproductive Effects:** Not available.

**Developmental Effects:** Not available.

**Neurotoxicity:** Not available.

**Mutagenicity:** Not available.

**Specific Target Organ Toxicity, Single Exposure:** Not available.

**Specific Target Organ Toxicity, Repeated Exposure:** Not available.

**Symptoms associated with exposure:** Causes serious eye irritation. May be harmful in contact with skin. Harmful if swallowed. Overexposure may cause nausea, diarrhea, vomiting, anorexia, dizziness, kidney damage, dehydration, weight loss, skin problems, thyroid disturbance, central nervous system effects, neuromuscular effects, stomach irregularities.

**The toxicological properties of this material have not been thoroughly investigated.**

Section 12 - Ecological Information
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**Ecotoxicity:** Do not release to the environment. Do not release to drains.

**CAS#554-13-2 Lithium Carbonate:**

LC50, freshwater fish: 30.3 mg/L 96h static (oncorhynchus mykiss)(rainbow trout)

EC50, water flea: 33 mg/L 48h static (daphnia magna)

EC50, algae: >400 mg/L 72h static (desmodesmus subspicatus)(green algae)

**Persistence and degradability:** Not available.

**Bio-accumulative potential:** Not available.

**Mobility:** Not available.

Section 13 - Disposal Considerations
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**DISPOSAL:** Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information
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**DOT**

Non-Regulated

Section 15 - Regulatory Information
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**Canada Regulatory Information**

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information
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**SDS Creation Date:** 6-12-20

**Revision #1.** 5-19-23

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