

<b>Section 1. Chemical Product and Company Information</b>	
Common Name: Lithium Carbonate	Code: RW0058
Supplier: BBC Biochemical	MSDS#: RW0058
Synonym: None	Validation Date: 2-23-09
Trade Name: Lithium Carbonate	Print Date: 2-23-09
Material Uses:	Responsible Name: Dr. B
Manufacturer: BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	<b>In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477</b>

<b>Section 2. Composition and Information on Ingredients</b>			
Name	CAS#	% by Weight	Exposure Limits
1) Lithium Carbonate	554-13-2	100	

<b>Section 3. Hazards Identification</b>	
Physical State and Appearance	Solid. (Granular Solid. Powdered solid.)
Emergency Overview	Not available.
Routes of Entry	Eye contact, inhalation, ingestion, skin contact.
Potential Acute Health Effects	<p><b>Eyes</b> May cause irritation and lacrimation.</p> <p><b>Skin</b> May cause irritation with redness and pain.</p> <p><b>Inhalation</b> May cause respiratory tract irritation with shortness of breath. May cause pulmonary edema.</p> <p><b>Ingestion</b> May be harmful if swallowed. May cause gastrointestinal tract irritation with abdominal pain, nausea, vomiting, hypermotility and diarrhea. May affect behavior/ central nervous system (tremor, dizziness, slurred speech, muscle weakness, hallucinations, irritability, giddiness, disorientation, distorted perceptions, headache, confusion, seizures, excitement, toxic psychosis, somnolence, ataxia, drowsiness, convulsions, blurred vision, renal dysfunction, respiratory depression).</p>
Potential Chronic Health Effects	MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. May cause damage to the following organs: kidneys, peripheral nervous system, central nervous system, thyroid.
Other Toxic Effects on Humans	Hazardous in case of ingestion, inhalation. Slightly hazardous in case of skin contact (irritant).
Overexposure/ Signs/Symptoms	

<b>Section 4. First Aid Measures</b>	
Eye Contact	Immediately flush eyes thoroughly with water for at least 15 minutes. Get medical attention.
Skin Contact	Wash thoroughly with water. Cover the irritated skin with an emollient and get medical attention if irritation develops.
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do Not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Notes to Physician	Not available.

<b>Section 5. Fire Fighting Measures</b>	
Flammability of the Product	Non-flammable.
Auto-ignition Temperature	Not available.

<b>Flash Points</b>	Not available.
<b>Flammable Limits</b>	Not available.
<b>Products of Combustion</b>	Not available.
<b>Fire Hazards in Presence Of Various Substances</b>	Not Available.
<b>Explosion Hazards in Presence of Various Substances</b>	None indicated.
<b>Fire Fighting Media and Instructions</b>	Wear self-contained breathing apparatus.
<b>Protective Clothing (Fire)</b>	
<b>Special Remarks on Fire Hazards</b>	Ignites and burns fiercely when in contact with fluorine.
<b>Special Remarks on Explosion Hazards</b>	

### **Section 6. Accidental Release Measures**

<b>Small Spill and Leak</b>	Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and dispose or according to local and regional authority requirements.
<b>Large Spill and Leak</b>	Use a shovel to put the material into a convenient waste disposal container. Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

### **Section 7, Handling and Storage**

<b>Handling</b>	Keep locked up...Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or label. Keep away from incompatibles such as oxidizing agents, acids.
<b>Storage</b>	Keep container tightly closed, keep container in a cool, well ventilated area. Do not store above 25C(77F)

### **Section 8. Exposure Controls / Personal Protection**

<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
<b>Personal Protection</b>	
<b>Eyes</b>	Safety glasses with side shields should be worn at all times.
<b>Body</b>	Impervious clothing should be worn to prevent skin contact.
<b>Respiratory</b>	Any dust or mist respirator. If workplace exposure limit(s) of product or any component is exceeded, a NIOSH/MSHA approved air respirator is advised in absence of proper environmental control. Material should be handled or transferred in an approved fume hood or with adequate ventilation.
<b>Hands</b>	Rubber or equivalent gloves should be worn to prevent skin contact.
<b>Feet</b>	Data not available.
<b>Personal Protection in Case of a Large Spill</b>	Impervious clothing, rubber or equivalent gloves, safety glasses with side shields and respirator.
<b>Product Name</b>	<b>Exposure Limits</b>
1) Data not available.	
2)	
3)	
<b>Consult Local authorities before acceptable exposure limits.</b>	

### **Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Solid. (Granular solid. Powdered solid.)	<b>Odor:</b>	Odorless.
<b>Molecular Weight</b>	73.89 g/mole	<b>Taste:</b>	Not available.
<b>Molecular Formula</b>	Not applicable.	<b>Color:</b>	White.
<b>pH (1%/Water)</b>	11.2 (Basic)		
<b>Boiling/Condensation Point</b>	1310 Celsius		
<b>Melting/Freezing Point</b>	720		
<b>Critical Temperature</b>	Not applicable.		
<b>Specific Gravity</b>	Not applicable.		
<b>Vapor Pressure</b>	Not applicable.		
<b>Vapor Density</b>	Not applicable.		

<b>Volatility</b>	Not applicable.
<b>Odor Threshold</b>	Not applicable.
<b>Evaporation Rate</b>	Not applicable.
<b>VOC</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Ionicity (in water)</b>	Not available.
<b>Dispersion Properties</b>	Not available.
<b>Solubility</b>	Partially soluble in cold water, very slightly soluble in hot water.
<b>Physical Chemical Comments</b>	Not available.

### **Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	Stable.
<b>Conditions of Instability</b>	Incompatible materials.
<b>Incompatibility with Various Substances</b>	Reactive with oxidizing agents, acids.
<b>Corrosivity</b>	Non-corrosive in the presence of glass.
<b>Hazardous Polymerization</b>	Not available.

### **Section 11. Toxicological Information**

<b>Toxicity to Animals</b>	Acute oral and dermal toxicity.
<b>Chronic Effects on Humans</b>	MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. May cause damage to the following organs, kidneys, peripheral nervous system, central nervous system and thyroid.
<b>Other Toxic Effects on Humans</b>	Hazardous in case of ingestion or inhalation. Slightly hazardous in case of skin contact.
<b>Special Remarks on Toxicity to Animals</b>	Not available.
<b>Special Remarks on Chronic Effects on Humans</b>	May cause adverse reproductive effects and birth defects. May affect genetic material, May cause cancer. Human, passes through the placenta, excreted in maternal milk.
<b>Special Remarks on Other Toxic Effects on Humans</b>	Not available.

### **Section 12. Ecological Information**

<b>Ecotoxicity</b>	Not available.
<b>BODS and COD</b>	Not available.
<b>Biodegradable/OEDC</b>	Not available.
<b>Mobility</b>	Not available.
<b>Toxicity of the Products of Biodegradation</b>	Not available.
<b>Special Remarks on The Products of Biodegradation</b>	Not available.

### **Section 13. Disposal Considerations**

<b>Waste Information</b>	Not available.
<b>Waste Stream</b>	Not available.
<b>Consult your local or regional authorities. Always contact a permitted waste disposer (TSD) to assure compliance with all current local, state and federal regulations.</b>	

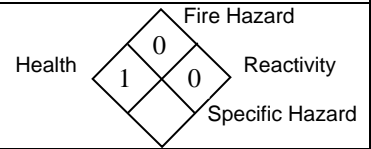
### **Section 14. Transport Information**

<b>DOT Classification</b>	Not hazardous.
<b>Marine Pollutant</b>	Not available.
<b>Hazardous Substances Reportable Quantity</b>	Not available.
<b>Special Provisions for Transport</b>	Not applicable.
<b>TDG Classification</b>	Not controlled under TDG (Canada).
<b>ADR/RID Classification</b>	Not controlled under ADR (Europe).

<b>IMO/IMDG Classification</b>	Not controlled under IMDG.
<b>ICAO/IATA Classification</b>	Not controlled under IATA.

**Section 15. Other Information**

<b>Label requirements</b>			
<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health</b>	2	<b>National Fire Protection Association (U.S.A.)</b>
	<b>Fire Hazard</b>	0	
	<b>Reactivity</b>	0	
	<b>Personal Protection</b>	E	



**References**

**Other Special Considerations**

**Notice to Reader**  
*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*