

## LITHIUM CARBONATE (13C, 89%)

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 14/12/2010

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Supersedes: 14/12/2010

Version: 2.0

CLM-1994-90

1.1. Product identifier		
Product form Substance name EC no CAS No Product code Formula	<ul> <li>Substance</li> <li>LITHIUM CARBONATE (13C, 89%)</li> <li>209-062-5 (Unlabeled)</li> <li>554-13-2 (Unlabeled)</li> <li>CLM-1994-90</li> <li>Li2*CO3</li> </ul>	
1.2. Relevant identified uses of the s	substance or mixture and uses advised against	
1.2.1.       Relevant identified uses         Main use category       Industrial/Professional use spec         1.2.2.       Uses advised against         No additional information available	<ul><li>Professional use</li><li>For professional use only</li></ul>	
1.3. Details of the supplier of the sa	fety data sheet	
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com		
Emergency telephone number		
Emergency numbers:		
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)		
CECTION 2. Honordo identificatio	n	
SECTION 2: Hazards identificatio		

Acute Tox. 4 (Oral) H302 Eye Irrit. 2 H319

Full text of H-statements: see section 16

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R22 Xi; R36 Full text of R-phrases: see section 16

#### **GHS-US** classification

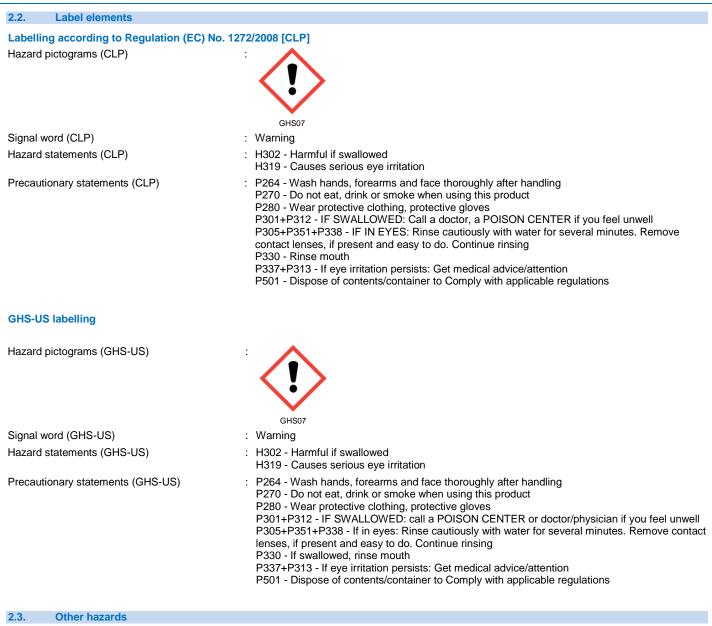
Acute Tox. 4 (Oral) H302 Eye Irrit. 2A H319

#### Adverse physicochemical, human health and environmental effects

No additional information available

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations



#### No additional information available

ECTION 3: Composition/information	on on ingreatents		
.1. Substance			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
LITHIUM CARBONATE (13C, 89%) (Main constituent)	(CAS No) 554-13-2 (Unlabeled) (EC no) 209-062-5 (Unlabeled) (EC index no)	100	Xn; R22 Xi; R36
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
LITHIUM CARBONATE (13C, 89%) (Main constituent)	(CAS No) 554-13-2 (Unlabeled) (EC no) 209-062-5 (Unlabeled) (EC index no)	100	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319

#### Full text of R- and H-statements: see section 16

Name	Product identifier	%	GHS-US classification
LITHIUM CARBONATE (13C, 89%) (Main constituent)	(CAS No) 554-13-2 (Unlabeled)	100	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319

Full text of H-statements: see section 16

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 3.2 **Mixture** Not applicable SECTION 4: First aid measures 4.1. **Description of first aid measures** First-aid measures general : Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. First-aid measures after inhalation If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician. First-aid measures after skin contact : Wash with soap and plenty of water. Consult a physician. First-aid measures after eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a First-aid measures after ingestion physician. 4.2. Most important symptoms and effects, both acute and delayed : May be harmful if inhaled. May cause respiratory tract irritation. Symptoms/injuries after inhalation Symptoms/injuries after skin contact May be harmful if absorbed through skin. May cause skin irritation. Symptoms/injuries after eye contact Causes serious eye irritation. Symptoms/injuries after indestion : Harmful if swallowed. Indication of any immediate medical attention and special treatment needed 4.3. No additional information available SECTION 5: Firefighting measures **Extinguishing media** 5.1. Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. 5.2. Special hazards arising from the substance or mixture Reactivity : Not available. 5.3. Advice for firefighters **Firefighting instructions** : Wear self contained breathing apparatus for fire fighting if necessary. Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. SECTION 6: Accidental release measures Personal precautions, protective equipment and emergency procedures 6.1. 6.1.1. For non-emergency personnel : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Emergency procedures Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. 6.1.2. For emergency responders No additional information available 6.2. **Environmental precautions** Do not let product enter drains. Methods and material for containment and cleaning up 6.3. For containment : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable. closed containers for disposal. **Reference to other sections** 6.4 No additional information available **SECTION 7: Handling and storage** Precautions for safe handling 7.1. Precautions for safe handling : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Handle in accordance with good industrial hygiene and safety practice. Wash hands before Hygiene measures breaks and at the end of workday. Conditions for safe storage, including any incompatibilities 72 : Keep container tightly closed in a dry and well-ventilated place. **Technical measures** Storage conditions : Store at room temperature away from light and moisture. Specific end use(s) 7.3.

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

- : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.
Environmental exposure controls	: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9: Physical and chemical properties

9.1.       Information on basic physical and chemical properties         Physical state       :       Solid         Appearance       :       Powder.         Molecular mass       :       74.88 g/mol (Labeled)         Colour       :       white.         Odour threshold       :       Odata available         pH       :       9 - 11 at 1 g/l         Relative evaporation rate (butylacetate=1)       :       No data available         Metting point       :       618 °C (1,144 °F) - lit.         Freezing point       :       No data available         Boiling point       :       No data available         Boiling point       :       No data available         Plash point       :       No data available         Pash point       :       No data available      <	ezerrent en ringelear and enemiear p	
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9.2 Other information	Explosive limits	: No data available
	9.2. Other information	

No additional information available

## **SECTION 10: Stability and reactivity**

10.1. Reactivity

### Not available.

### 10.2. Chemical stability

Stable if stored under recommended conditions.

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.3. Possibility of hazardous reactions			
No additional information available			
10.4. Conditions to avoid			
Not available.			
10.5. Incompatible materials			
Strong oxidizing agent. Oxidizing agents.			
10.6. Hazardous decomposition products			
No data available.			
SECTION 11: Toxicological informati	on		
11.1. Information on toxicological effects			
Acute toxicity	: Harmful if swallowed.		
LITHIUM CARBONATE (13C, 89%) (554-13-2	(Unlabeled))		
LD50 oral rat	525 mg/kg		
LD50 dermal rat	> 2000 mg/kg		
LC50 inhalation rat (mg/l)	2.17 mg/l/4h		
ATE CLP (oral)	500.000 mg/kg bodyweight		
Skin corrosion/irritation	: Not classified		
	pH: 9 - 11 at 1 g/l		
Serious eye damage/irritation	: Eyes - Rabbit Result: Eye irritation		
	pH: 9 - 11 at 1 g/l		
Respiratory or skin sensitisation	: Buehler Test - guinea pig - Did not cause sensitization on laboratory animals. (OECD Test Guideline 406)		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Did not show teratogenic effects in animal experiments.		
Specific target organ toxicity (single exposure)	: Not classified		
Specific target organ toxicity (repeated exposure)	: Not classified		
Aspiration hazard	: Not classified		
Potential adverse human health effects and symptoms	: Nausea. Anorexia. Stomach - Irregularities - Based on Human Evidence. Large doeses of lithium ion have caused dizziness and prostration, and can cause kidney damage if sodium intake is limited. Dehydration, weight loss, dermatological effects, and thyroid disturbances have been reported. Central nervous system effects that include slurred speech, blurred vision, sensory loss, ataxia, and convulsions may occur. Diarrhea, vomiting and neuromuscular effects such as tremor, clonus, and hyperactive reflexes may occur as a result of repeated exposure to lithium ion. Cough, Shortness of breath, Headache, Nausea. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.		
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.		
Symptoms/injuries after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.		
Symptoms/injuries after eye contact	: Causes serious eye irritation.		
Symptoms/injuries after ingestion	: Harmful if swallowed.		

SECTION 12: Ecological information				
12.1. Toxicity				
LITHIUM CARBONATE (13C, 89%) (554-13-2 (Unlabeled))				
LC50 fish 1	30.3 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h			
EC50 Daphnia 1	33.2 mg/l Daphnia magna (Water flea) - 48 h			
EC50 other aquatic organisms 1	> 400 mg/l static test EC50 - Desmodesmus subspicatus (green algae) - 72 h			
12.2. Persistence and degradability				
No additional information available				
12.3. Bioaccumulative potential				

12.3. No additional information available

#### Mobility in soil 12.4.

No additional information available

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

		-	
12.5.	Results of PBT and vPvB assessm	ent	
No add	itional information available		
12.6.	Other adverse effects		
No add	itional information available		
SECT	ION 13: Disposal consideration	ons	
13.1.	Waste treatment methods		
Regiona	al legislation (waste)		Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.
Waste o	disposal recommendations	:	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology	/ - waste materials	:	Dispose of as unused product.
SECT	ION 14: Transport information		
In acco	rdance with ADR / RID / IMDG / IATA /	ADN	
14.1.	UN number		
Not app	blicable		
14.2.	UN proper shipping name		
Not app	blicable		
14.3.	Additional information		
Other in	nformation	:	No supplementary information available.
Special	transport precautions	:	Not dangerous goods.
Overla	nd transport		
	itional information available		
Transp	ort by sea		
No addi	itional information available		
Air trar	Air transport		
No addi	itional information available		
14.4.	Environmental hazards		
Other in	nformation	:	No supplementary information available.
14.5.	Special precautions for user		
Special	transport precautions	:	Not dangerous goods.
14.6.		nex	I of MARPOL 73/78 and the IBC Code
Not app	blicable		

SECTION 15: Regulatory information				
15.1. US Federal regulations				
LITHIUM CARBONATE (13C, 89%) (554-13-2 (Unlabeled))				
Subject to reporting requirements of United States SARA Section 313				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard			

### 15.2. International regulations

### CANADA

LITHIUM CARBONATE (13C, 89%) (554-13-2 (Unlabeled))
Listed on the Canadian DSL (Domestic Substances List)

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 15.2.1. National regulations

No additional information available

15.3. US State regulations				
LITHIUM CARBONATE (13C, 89%)(554-13-2 (Unlabeled))				
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List WARNING! This product contains a chemical known by the state of California to cause birth defects or other reproductive harm.			

## **SECTION 16: Other information**

#### Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

#### Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed
H319	Causes serious eye irritation
R22	Harmful if swallowed
R36	Irritating to eyes
Xi	Irritant
Xn	Harmful

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard

: 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

Physical

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product