
View Section: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Catalog No. 14227

Product Name:

SECTION 4 : FIRST AID MEASURESCatalog No. 14227

Eye Contact:	Immediately flush eyes with plenty of water for at least 20 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention if irritation persists, or symptoms of overexposure become apparent.
Skin Contact:	Immediately wash skin with plenty of water for at least 20 minutes, while removing contaminated clothing and shoes. Get medical attention especially, if irritation develops, persists, or symptoms of overexposure become apparent.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Keep warm. Get immediate medical attention.
Ingestion:	If swallowed, call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting unless instructed by medical personnel. Get medical attention.

[To Top of page](#)

SECTION 5 : FIRE FIGHTING MEASURESCatalog No. 14227

Fire:	Material is non-combustible.
Flash Point:	No data
Extinguishing Media:	Use an extinguisher suitable for the other materials involved.
Unsuitable Media:	Water extinguishers are not recommended.
Protective Equipment:	As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

[To Top of page](#)

SECTION 6 : ACCIDENTAL RELEASE MEASURESCatalog No. 14227

Personal Precautions:	Use proper personal protective equipment as listed in section 8.
Spill Cleanup Measures:	Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Refer to section 13 for disposal requirements.
Environmental Precautions:	Do not allow material to enter drains or streams.

[To Top of page](#)

SECTION 7 : HANDLING and STORAGECatalog No. 14227

Handling:	This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data. It should always be handled in an efficient fume hood or equivalent system. The user should consider that the toxicological and physiological properties of many compounds are not yet well determined and that new hazardous products may arise from reactions between chemicals. Care should be taken to prevent any chemical from coming into contact with the skin or eyes and from contaminating personal clothing.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat and incompatible substances. Keep container tightly closed when not in use.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling dust.

[To Top of page](#)



Lithium carbonate :

RTECS Number:	OJ5800000
Eye Effect:	No data reported in the cited references as of the revision date.
Skin Effects:	No data reported in the cited references as of the revision date.
Ingestion Effects:	<p>Oral - rat LD50: 525 mg/kg [Behavioral - somnolence (general depressed activity) Lungs, Thorax, or Respiration - respiratory depression Gastrointestinal - hypermotility, diarrhea] (RTECS);</p> <p>Oral - mouse LD50: 531 mg/kg (RTECS);</p> <p>Oral - man TDLo: 54 mg/kg [Behavioral - sleep Behavioral - hallucinations, distorted perceptions] (RTECS);</p> <p>Oral - woman TDLo: 120 mg/kg/10D-I [Behavioral - excitement] (RTECS);</p> <p>Oral - man TDLo: 25 gm/kg/4Y-I [Behavioral - tremor Sense Organs and Special Senses (Eye) - miosis (pupillary constriction)] (RTECS);</p> <p>Oral - Human TDLo: 4111 mg/kg [Behavioral - tremor Behavioral - muscle weakness Gastrointestinal - other changes] (RTECS);</p> <p>Oral - Human TDLo: 4111 mg/kg (RTECS);</p> <p>Oral - woman TDLo: 8760 mg/kg/2Y-I [Endocrine - thyroid weight (goiter) Endocrine - evidence of thyroid hyperfunction] (RTECS);</p> <p>Oral - woman TDLo: 36500 mg/kg/10Y-I [Kidney, Ureter, Bladder - changes in tubules (including acute renal failure, acute tubular necrosis) Kidney, Ureter, Bladder - urine volume increased Endocrine - diabetes insipidus (nephrogenic or CNS)] (RTECS);</p> <p>Oral - man TDLo: 8 mg/kg [Gastrointestinal - nausea or vomiting Skin and Appendages - dermatitis, other (after systemic exposure)] (RTECS);</p> <p>Oral - woman TDLo: 612 mg/kg/44D-I [Behavioral - sleep Skin and Appendages - dermatitis, allergic (after systemic exposure)] (RTECS);</p> <p>Oral - man TDLo: 1080 mg/kg/13W-I [Skin and Appendages - dermatitis, allergic (after systemic exposure)] (RTECS)</p>
Inhalation Effects:	No data reported in the cited references as of the revision date.
Chronic Ingestion Effects:	<p>Oral - rat TDLo: 4500 mg/kg/30D-I Nutritional and Gross Metabolic - weight loss or decreased weight gain Nutritional and Gross Metabolic - dehydration Related to Chronic Data - death;</p> <p>Oral - man) Endo uG -1.111r p1/raddcTj 0 -1.1111 Tirarte citD (systemi1/r - TD (vionj 0.502 0 0 rg -20.177 -1.41/r - TD (v by m carbath/kgiaata repo:</p>

SECTION 12 : ECOLOGICAL INFORMATIONCatalog No. 14227

Ecotoxicity:	No information provided.
Bioaccumulation:	No information provided.
Biodegradation:	No information provided.
Environmental Stability:	No information provided.

[To Top of page](#)

SECTION 13 : DISPOSAL CONSIDERATIONSCatalog No. 14227

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines, by a licensed disposal company.
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[To Top of page](#)

SECTION 14 : TRANSPORT INFORMATIONCatalog No. 14227

DOT Hazard Class:	No data.
DOT Identification Number:	No data.

[To Top of page](#)

SECTION 15 : REGULATORY INFORMATIONCatalog No. 14227

Lithium carbonate :

TSCA 8(b): Inventory Status:	Listed on the TSCA inventory.
TSCA 12(b): Export Notification	None of the chemicals are listed under TSCA Section 12b.
SARA:	CAS # 554-13-2: chronic.
State:	LITHIUM CARBONATE can be found on the following state right to know lists: New Jersey, Massachusetts. WARNING: This product contains LITHIUM CARBONATE, a chemical known to the state of California to cause birth defects or other reproductive harm. California No Significant Risk Level: None of the chemicals in this product are listed.
Risk Phrases:	R22 Harmful if swallowed. R36/37/38 Irritating to eyes, respiratory system and skin.
Safety Phrase:	S22 Do not breathe dust. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36 Wear suitable protective clothing.

[To Top of page](#)

SECTION 16 : ADDITIONAL INFORMATIONCatalog No. 14227

MSDS Preparation Date:	January 1, 2002, Version 1
MSDS Revision Date:	April 14, 2003.
MSDS Author:	Actio Corporation.

Disclaimer:

This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.

Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet. We welcome any additional information about our products that customers have obtained by personal experience.

References:

1. American Chemical Society, STN Easy Online Database
2. Brethericks Reactive Chemical Hazards Database. Version 2.
3. Gassarett and Doulls Toxicology, The Basic Science of Poisons.
4. Hawleys Condensed Chemical Dictionary, Thirteenth Edition
5. IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, WHO International Research on Cancer.
6. Industrial Hygiene and Toxicology, by F.A. Patty.
7. National Library of Medicine, Department of Health and Human Services, Hazardous Substances Data Bank (HSDB).
8. National Toxicology Program (NTP) Eighth Report on Carcinogens, 1997.
9. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS) and Pocket Guide to Chemical Hazards.
10. OSHA Hazard Communication Standard, 1910.1200 and Z Tables.
11. Sax Dangerous Properties of Industrial Materials. Tenth Edition.
12. The Merck Index: An Encyclopedia of Chemicals and Drugs. Merck and Company. Twelfth Edition 1998.
13. Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environmental and Biological Exposure Indices. TLV Booklet, 2001.

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[To Top of page](#)