

POLY RESEARCH CORPORATION -- LITHIUM HYDROXIDE -- 6810-00-559-3261

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Product Identification
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Product ID:LITHIUM HYDROXIDE

MSDS Date:10/06/1998

FSC:6810

NIIN:00-559-3261

MSDS Number: BFFLD

=== Responsible Party ===

Company Name:POLY RESEARCH CORPORATION

Address:125 CORPORATE DRIVE

City:HOLTSVILLE

State:NY

ZIP:11742

Country:US

Info Phone Num:516-758-0460

Emergency Phone Num:516-758-0460

Che

mtrec Ind/Phone:(800)424-9300

CAGE:64713

=== Contractor Identification ===

Company Name:POLY RESEARCH CORPORATION

Address:125 CORPORATE DRIVE

Box:City:HOLTSVILLE

State:NY

ZIP:11742-2007

Country:US

Phone:516-758-0460

Contract Num:SP0450-01-M-D219

CAGE:64713

Company Name:TANGRAM COMPANY LLC

Address:125 CORPORATE DR

Box:City:HOLTSVILLE

State:NY

ZIP:11742

Country:US

Phone:631-758-0460

Contract Num:SP0450-01-C-0609

CAGE:1H2F5

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Composition/Information on Ingredients
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Ingr

ed Name:LITHIUM HYDROXIDE

CAS:1310-65-2

RTECS #:OJ6307070

= Wt:99.

Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

LD50 LC50 Mixture:NO DATA PROVIDED BY MANUFACTURER

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE- THIS MATERIAL IS CORROSIVE TO SKIN, EYES (MAY CAUSE BLINDNESS), NOSE, THROAT, RESPIRATORY & GASTROINTESTINAL TRACTS. THE

USE OF THIS PRODUCT IN INDUSTRIAL &

COMMERCIAL APPLICATIONS PRESENTS NO SIGNIFICANT TOXICITY HAZARD.

CHRONIC- UNKNOWN. TARGET ORGANS: N/P.

Explanation of Carcinogenicity:PRODUCT IS NOT INDICATED TO BE CARCINOGENIC.

Effects of Overexposure:LITHIUM CARBONATE IS USED THERAPEUTICALLY AT 500-2000 MG/DAY ORAL DOSES FOR SPECIFIC METAL DISORDERS.

THERAPEUTIC EFFECTS OCCUR AAT BLOOD LEVELS OF 2.8-8.3 MG LITHIUM PER LITER. MINIMAL SIGNS OF TOXIC ITY MAY ALSO OCCUR AT THESE TH

ERAPEUTIC LEVELS AND INVOLVE PRIMARILY GASTROINTESTINAL UPSET.

INCREASED DOSAGES CAN PRODUCE TREMORS, DROWSINESS AND INSTEADY GAIT. SIGNS OF TOXICITY RESOLVE RAPIDLY ON C ESSATION OF TREATMENT. PROLONGED TREATMENT AT TOXIC LEVELS RESULT IN DEHYDRATION, KIDNEY DAMAGE, WEIGHT LOW AND THYROID DISTURBANCES.

Medical Cond Aggravated by Exposure:NO APPLICABLE DATA WAS FOUND.

===== First Aid Measures =====

First Aid:EYES: IMMEDIATELY FLUSH WITH WAT ER FOR 15 MINUTES, LIFIING

UPPER AND LOWER LIDS OCCASIONALLY. IMMEDIATELY SEE A PHYSICIAN.

SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER. IF IRRITATION

PERSISTS SEEK MED ICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR.

SUPPORT RESPIRATION IF NECESSARY. IF BREATHING DISCOMFORT OCCURS

AND PERSISTS, SEE A PHYSICIAN. INGESTION: DRINK TWO GLASSES OF

WATER. DO NOT INDUCE VO MITING! DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEE A PHYSICIAN IMMEDIATELY.

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===== Fire Fighting Measures =====

Extinguishing Media:ANY SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:NONE.

Unusual Fire/Explosion Hazard:NONE, THIS PRODUCT IS NOT AN EXPLOSIVE.

===== Accidental Release Measures =====

Spill Release Procedures:SWEEP UP AND PLACE IN SUITABLE CONTAINER.

Neutralizing Agent:DLA-HMIS: WEAK ACID.

===== Handling and Storage =====

Handling and Storage Precautions:DO

NOT GET IN EYES, ON SKIN OR

CLOTHING. AVOID BREATHING THE DUST. KEEP CONTAINER CLOSED. STORE AWAY FROM ACIDS AND WATER. WASH THOROUGHLY AFTER HANDLING.

Other Precautions:NO DATA PROVIDED BY MANUFACTURER

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR NIOSH/MSHA APPROVED RESPIRATOR WHEN ADEQUATE VENTILATION IS NOT AVAILABLE.

Ventilation:USE WITH ADEQUATE VENTILATION.

Protective Gloves:RUBBER

Eye Protection:SAFETY GLASSES WITH SIDE SHI

ELDS, CHEMICAL WORKERS

DUST-PROOF GOGGLES

Other Protective Equipment:QUICK DRENCH EYE WASH & SAFETY SHOWER.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

NOTE TO PHYSICIAN: LITHIUM HYDROXIDE HAS HIGH INHALATION CORROSIVITY AND IS CORROSIVE BY INGESTION. REMOVAL OF EXPOSURE SHOULD BE IMMEDIATE, USING LARGE AMOUNTS OF WATER & GASTRIC GAVAGE IF NECESSARY. TREATMENT IS OTHERWISE SYMPTOMATIC AND SUPPORTIVE.

===== Physical/Chemical

Properties =====

HCC:B1

Melt/Freeze Pt:=470.C, 878.F

Decomp Temp:=924.C, 1695.2F

Spec Gravity:1.5

Evaporation Rate & Reference:N/A (BUTYL ACETATE=1)

Solubility in Water:10% @25C

Appearance and Odor:WHITE CRYSTALS - ODORLESS

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS, ALUMINUM, ZINC

Stability Condition to Avoid:REACTS WITH ACIDS.

Hazardous Decomposition Products:NONE.

===== Toxi

ecological Information =====

Toxicological Information:SOME STUDIES OF PREGNANT MICE AND RATS WERE ASSOCIATED WITH BIRTH DEFECTS BUT ONLY AT DOSE LEVELS LARGE ENOUGH TO PRODUCE SIGNS OF SEVERE MATERNAL TOXICITY. ALTHOUGH DATA FROM THE 1970'S AND EARLY 198 0'S SUGGESTED AN INCREASE IN CARDIOVASCULR DEFECTS IN BABIES BORN TO WOMEN ON LITHIUM CARBONATE THERAPY, MORE RECENT STUDIES HAVE FOUND NO ASSOCIATION BETWEEN LITHIUM EXPOSURE AND BIRTH DEFECTS. WOMEN RECEIVING THERAPEUTIC LITHIUM CARBONATE TREATMENT AT THE TIME OF CONFINEMENT HAVE THE POTENTIAL FOR DELIVERY OF A FETUS WITH POOR MUSCLE TONE, SLOW HEART RATE AND CYANOSIS. FULL RECOVERY USUALLY OCCU RS WITHIN 2-10 DAYS POST PARTUM.

===== Ecological Information =====

Ecological:NO DATA PROVIDED BY MANUFACTURER.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF WASTE ACCORDING TO FEDERAL EPA, STATE AND LOCAL REGULATIONS.

===== MSDS Transport Information =====

Transport Information:CORROSIVE SOLID, N.O.S., 8, UN1759, PG II.
FOREIGN: LITHIUM HYDROXIDE, MONOHYDRATE, CORROSIVE MATERIAL UN2680.

===== Regulatory Information =====

SARA Title III Information:NOT LISTED IN SARA TITLE III.
Federal Regulatory Information:TSCA INVENTORY STATUS: LISTED.
REPORTABLE QUANTITY (RQ) UN US EPA CERCLA: NO DATA PROVIDED BY MANUFACTURER.
State Regulatory Information:RIGHT-TO-KNOW:CALIFORNIA:LISTED AS A REPRODUCTIVE TOXIN.

===== Other Information =====

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