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## TANGRAM COMPANY LLC -- LITHIUM HYDROXIDE -- 6810-00-559-3261

============= Product Identification ==============

Product ID:LITHIUM HYDROXIDE

MSDS Date:12/12/2000

FSC:6810

NIIN:00-559-3261

MSDS Number: CLBRQ === Responsible Party ===

Company Name: TANGRAM COMPANY LLC

Address:125 CORPORATE DR

City:HOLTSVILLE

State:NY ZIP:11742 Country:US

Info Phone Num:516-758-0471

Emergency Phone Num: (800) 424-9300

Chemtrec Ind/Phon e:(800)424-9300 CAGE:1H2F5

=== Contractor Identification ===

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-M-D846

CAGE:1H2F5

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-M-ZB85

CAGE:1H2F5

Company Name: TANGRAM COMPANY LLC

Address:125 CORPORATE DR

Box:City:HOLTSVILLE

State:NY ZIP:11742 Countr y:US

Phone:631-758-0460

Contract Num:SP0450-02-D-4004

CAGE:1H2F5

======= Composition/Information on Ingredients ========

Ingred Name:LITHIUM HYDROXIDE

CAS:1310-65-2

RTECS #:OJ6307070

= Wt:99.

Other REC Limits: 2 MG/M3

LD50 LC50 Mixture: ORAL LD50(RAT):

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

Health Hazards Acute and Chronic:EFFECTS OF SINGLE OVERESPOSURE: THIS MATERIAL IS CORROSIVE TO SKIN, EYES

(MAY CAUSE BLINDNESS), NOSE,

THROAT, AND RESPIRATORY TRACT. EFFECTS OF OVEREXPOSURE: THE USE OF THIS PRODUCT IN INDUSTRIAL AND COMMERICAL APPLICATIONS PRESENTS NO SIGNIFICANT TOXICITY HAZARD. THE SYMPTOMS DESCRIBED IN SIGNS/SYMPTOMS OF OVEREXPOSURE ARE BASED ON THERAPEUTIC APPLICATIONS OF LITHIUM CARBONATE WHERE RELATIVELY LA RGE DOSES ARE TAKEN BY MEDICALLY SUPERVISED PATIENTS.

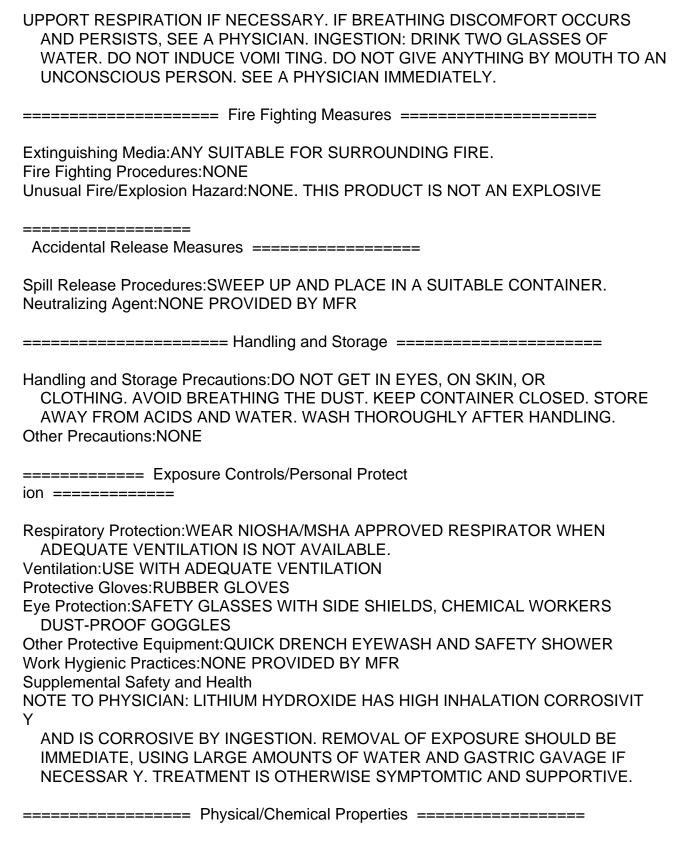
Explanation of Carcinogenicity: THIS PRODUCT IS NOT INDICATED TO BE CARGINOGENIC.

## **Effects**

of Overexposure:LITHIUM CARBONATE IS USED THERAPEUTICALLY AT 500 TO 2000 MG/DAY ORAL DOSES FOR SPECIFIC MENTAL DISORDERS. THERAPEUTIC EFFECTS OCCUR AT BLOOD LEVELS OF 2.8 TO 8.3 MG LITHIUM PER LITER. MINIMAL SIGNS OF TOXICITY MAY ALSO OCCUR AT THESE THERAPEUTIC LEVELS AND INVOLVE PRIMARY GASTROINTESTINAL UPSET. INCREASED DOSAGES CAN PRODUCE TREMORS, DOOWSINESS AND UNSTEADY GAIT. SIGNS OF TOXICITY RESOLVE RAPIDLY ON CESSATION OF TREATMENT. PROLONGED TREATMENT AT TOXI

C LEVELS RESULT IN DEHYDRATION, KIDNEY
DAMAGE, WEIGHT LOSS AND THYROID DISTURBANCES.
Medical Cond Aggravated by Exposure: NO APPLICABLE DATA WAS FOUND

First Aid:EYE: IMMEDIATELY FLUSH WITH WATE FOR 15 MINUTES, LIFTING UPPER AND LOWER LIDS OCCASIONALLY. IMMEDIATELY SEE A PHYSICIAN. SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER. IF IRRITATION PERSISTS SEEK MEDIC AL ATTENTION. INHALATION: REMOVE TO FRESH AIR. S



HCC:B1

Melt/Freeze Pt:=243.3C, 470.F

Decomp Temp:Decomp Text:NONE PROVIDED BY MFR

Spec Gravity:1.5 G/CC pH:NONE PROVIDED

Viscosity: NONE PROVIDED BY MFR

Solubility in Water:10 WT% BY WT @ 77 F (25C)

Appearance and Odor:WHITE CRYSTA

LS, ODORLESS Percent Volatiles by Volume:NONE PROVIDE Corrosion Rate:NONE PROVIDED BY MFR
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES STRONG ACIDS, ALUMINUM, ZINC Stability Condition to Avoid:NONE Hazardous Decomposition Products:NONE Conditions to Avoid Polymerization:WILL NOT OCCUR. REACTS WITH ACIDS
========== Toxicological Information ===========
Toxicological Information:STUDIES OF PREGNANT MICE/RATS AS SOCIATED WITH BIRTH DEFECTS ONLY AT DOSE LEVELS THAT PRODUCE MATERNAL TOXICITY. EARLIER DATA SUGGEST INCREASED CARDIOVASCULAR DEFECTS IN BABIES BORN TO WOMEN ON LITHIUM CARBONATE BUT RECENT DATA HAVE NOT FOUND THE ASSOCIATION. WOMEN ON THERAPUTIC DOSES HAVE POTENTIAL TO DELIVER FETUS WITH POOR MUSCLE TONE, SLOW HEART RATE & CYANOSIS. THESE LEVELS & HIGHER MAY POSE R ISK TO CONCEPTUS & BENEFITS TO MOTHER MUST BE WEIGHED. EXPOSURE TO LITHIUM IN INDUSTRIAL SETTINGS
IS NOT CONSIDERED TO POSE RISK TO HUMAN HEALTH.
========= Ecological Information ===========
Ecological:NOT PROVIDED
======== 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, PGII, FOREIGN: LITHIUM HYDROXIDE, MONOHYDROXIDE, CORROSI VE MATERIAL, UN2680
=========== Regulatory Information ============
Federal Regulatory Information:NOT PROVIDED State Regulatory Information:LISTED AS REPRODUCTIVE TOXIN IN CALIFORNIA.
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