

SIGMA CHEMICAL COMPANY -- LITHIUM HYDROXIDE MONOHYDRATE, 62528 -- 6810-01-418-7455

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Product Identification
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Product ID:LITHIUM HYDROXIDE MONOHYDRATE, 62528

MSDS Date:01/01/1994

FSC:6810

NIIN:01-418-7455

MSDS Number: CBRFK

=== Responsible Party ===

Company Name:SIGMA CHEMICAL COMPANY

Address:3050 SPRUCE ST

Box:14508

City:ST. LOUIS

State:MO

ZIP:63178

Country:US

Info Phone Num:800-325-3010

/FAX 800-325-5052

Emergency Phone Num:314-771-5765

CAGE:21076

=== Contractor Identification ===

Company Name:SIGMA CHEMICAL COMPANY

Address:3050 SPRUCE ST

Box:14508

City:ST LOUIS

State:MO

ZIP:63178

Country:US

Phone:314-771-5765

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Composition/Information on Ingredients
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Ingred Name:LITHIUM HYDROXIDE MONOHYDRATE

CAS:1310-66-3

RTECS #:OJ6307080

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:FIRST AID PROC:PERSON IS CONSCIOUS. CALL MD.

RTECS #:9999999ZZ

Ingred Nam

e:WASTE DISP METH:FUMES WHICH CAN BE CONTROLLED BY THE RATE OF ADDITION. OBSERVE ALL FED, STATE & LOC ENVIRON REGS.

RTECS #:9999999ZZ

Ingred Name:ING 3: HAVE OCCURRED IN BREAST-FED INFANTS OF WOMEN RECEIVING LITHIUM CARBONATE THERAPY.

RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC: CALL MD IMMEDIATELY. WASH CONTAMINATED CLOTHING BEFORE REUSE. DISCARD CONTAMINATED SHOES.

RTECS #:9999999ZZ

Ingred Name:WASTE DISP METH: THE HYDROLYSIS AND NETURALIZATION REACTIONS MAY GENERATE HEAT AND FUMES WHICH CAN BE CONTROLLED (ING 7)

RTECS #:9999999ZZ

Ingred Name:ING 6: BY THE RATE OF ADDITION. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

RTECS #:9999999ZZ

Ingred Name:EYE PROT: & FULL LENGTH FACESHIELD . FACESHIELD (8-INCH MINIMUM).

RTECS #:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:

NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE:HARMFUL IF SWALLOWED, INHALED/ABSORBED THRU SKIN. MATL IS EXTREMELY DESTRUCT TO TISS OF MUC MEMBS & UPPER RESP TRACT, EYES & SKIN. INHAL MAY BE FATAL AS RSLT OF SPASM, INFLAMM & EDEMA OF THE LAR YNX & BRONCHI, CHEM PNEUM & PULM EDEMA.SYMPs OF EXPOS MAY INCL BURNING SENSATION, COUGH, WHEEZING, (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HLTH HAZ:LARYNGITIS, SHORTNESS OF B

REATH, HDCH,
NAUS & VOMIT. TO THE BEST OF MFR'S KNOWLEDGE, CHEM, PHYSICAL &
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THORO INVESTIGATED. LG DOSES
OF LITHIUM ION HAVE CAUSED DIZZ & PROSTRATION, & CAN CAUSE KIDNEY
DMG IF SODIUM INTAKE IS LTD. DEHYDRATION, WT LOSS, DERMATOLOGICAL
(SUPDAT)

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYES:IMMED FLUSH W/COPIOUS AMTS OF WATER FOR
AT LST 15 MINS.

ASSURE ADEQ FLUSHING BY SEPARATING EYELIDS W/FINGERS. SKIN:IMMED
FLUSH W/COPIOUS AMTS OF WATER FOR AT LST 15 MINS WHILE REMOVING
CONTAM CLT HG & SHOES. WASH CONTAM CLTHG BEFORE REUSE. DISCARD
CONTAM SHOES. INHAL:REMOVE TO FRESH AIR. IF NOT BRTHG GIVE ARTF
RESP. IF BRTHG IS DFCLT, GIVE OXYG. INGEST:WASH OUT MOUTH W/WATER
PROVIDED (ING 2)

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

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL P
OWDER OR APPROPRIATE
FOAM.

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE
EQUIPMENT .

Unusual Fire/Explosion Hazard:EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

Spill Release Procedures:EVACUATE AREA. WEAR NIOSH/MSHA APPROVED SCBA,
RUBBER BOOTS & HEAVY RUBBER GLOVES. SWEEP UP, PLACE IN A BAG & HOLD
FOR WASTE DISPOSAL. VENTILATE AREA & WASH SPILL SITE AFTER MATERIAL
PICKUP IS COMPLETE .

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:DO NOT BREATHE DUST. DO NOT GET IN
EYES, ON SKIN, ON CLTHG. AVOID PRLNG/RPTD EXPOS. CORROSIVE. CAUSES
BURNS. HARMFUL SOLID. KEEP TIGHTLY CLOSED.

Other Precautions:HYGROSCOPIC. STORE UNDER NITROGEN. STORE IN A COOL,
DRY PLACE. HARMFUL BY INHALATION, IN CONTACT W/SKIN & IF SWALLOWED.
ABSORBS CO*2 FROM AIR.

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===== Exposure

Controls/Personal Protection =====

Respiratory Protection:WEAR APPROPRIATE NIOSH/MSHA APPROVED RESPIRATOR.

Ventilation:USE ONLY IN A CHEMICAL FUME HOOD.

Protective Gloves:CHEMICAL-RESISTANT GLOVES.

Eye Protection:ANSI APPROVED CHEM WORKERS GOGGS(SUPDAT)

Other Protective Equipment:EYE WASH FOUNTAIN & DELUGE SHOWER WHICH MEET ANSI DESIGN CRITERIA . WEAR SUITABLE PROTECTIVE CLOTHING.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

EFTS OF OVEREX

P:EFTS & THYROID DISTURBS HAVE BEEN REPORTED. CNS EFTS

THAT INCL SLURRED SPEECH, BLURRED VISION, SENSORY LOSS, ATAXIA & CONVLS MAY OCCUR. DIARR, VOMIT & NEUROMUSCULAR EFTS SUCH AS TREMOR , CLONUS & HYPERACTIVE REFLEXES MAY OCCUR AS RSLT OF RPTD EXPOS TO LITHIUM ION. EYE PROT:& FULL LGTH FACESHIELD .

===== Physical/Chemical Properties =====

HCC:B1

Vapor Density:2.5

Spec Gravity:1.51

Appearance and Odor:WHITE CRYSTALS.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, STRONG ACIDS.

Stability Condition to Avoid:ABSORBS CO*2 FROM AIR.

Hazardous Decomposition Products:NATURE OF DECOMPOSITION PRODUCTS NOT KNOWN.

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

Waste Disposal Methods:FOR SM QTYS:CAUTIOUSLY ADD TO LG STIRRED EXCESS OF WATER. ADJUST PH TO NEUTRAL, SEPARATE ANY INSOL SOLIDS/LIQS & PACKAGE THEM FOR HAZ-WASTE DISP. F

LUSH AQ SOLN DOWN DRAIN W/PLENTY

OF WATER. HYDROLYSIS & NEUTRALIZATION RXNS MAY GENERATE HEAT & (ING 3)

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