

FISHER SCIENTIFIC -- L128500, LITHIUM HYDROXIDE -- 6810-00-975-1521

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

Product ID:L128500, LITHIUM HYDROXIDE

MSDS Date:04/26/1985

FSC:6810

NIIN:00-975-1521

MSDS Number: BPHPD

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410-2802

Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:201-796-7100

CA

GE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

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

Ingred Name:LITHIUM HYDROXIDE

CAS:1310-65-2

RTECS #:OJ6307070

Fraction by Wt: 100%

Ingred Name:SUPP DATA:SUDDEN HYPOTENSION AFTER 2-4 DAYS. ESOPHAGEAL
STRICTURE MAY OCCUR LATER, EVEN AFTER SEVERAL YEARS. (ING 3)

RTECS #:99

99999ZZ

Ingred Name:ING 2:AVERAGE FATAL DOSE:5 GRAMS (HUMAN, ADULT). CHRONIC:
INHAL:MAY CAUSE BRONCH PNEUM, GI DISTURB & POSS KIDNEY (ING 4)
RTECS #:9999999ZZ

Ingred Name:ING 3:DAM W/CNS DISTURB. TERATOGENIC POTNTL. SKIN:MAY CAUSE
DERM. EYE:VAPS/FUMES MAY CAUSE CONJ & CORNEAL BURNS.
RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC:TIGHTLY. GET MD. EYES:WASH IMMED W/LGE AMTS
OF WATER, OCCASNLY LIFTING UPPER & LOWER LIDS, UNTIL (ING 6)
RTECS #:9999999ZZ

Ingred Name:ING 5:NO EVID OF CHE
M REMAIN (APPROX 15-20 MINS). IN
PRESENCE OF BURNS, APPLY STERILE BANDAGES LOOSELY W/OUT (ING 7)
RTECS #:9999999ZZ

Ingred Name:ING 6:MEDICATION. GET MD. INGEST:IF CONSCIOUS, GIVE LGE
QTYS OF WATER IMMED TO DILUTE ALKALI. DO NOT INDUCE VOM. (ING 8)
RTECS #:9999999ZZ

Ingred Name:ING 7:THIS MAY BE FOLLOWED W/DILUTE VINEGAR OR CITRUS
JUICE. GET MD IMMEDIATELY.
RTECS #:9999999ZZ

Ingred Name:SPILL PROC:DIKE FAR AHEAD OF SPILL FOR LATER DISPOSAL. KEEP
UNNEC PEOPLE AWAY. ISOLATE HAZAR
D AREA & DENY ENTRY.
RTECS #:9999999ZZ

Ingred Name:FIRE FIGHT PROC:READILY. USE FLOODING QUANTITIES OF WATER
AS FOG.
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED 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:TOX:LITHIUM HYDROXIDE IS CORR TO EYES,
MUC MEMB, RESP TRACT & SKIN. LITHIUM CMPDS MAY BE INJU

RIOUS TO

KIDNEYS, ESP W/INADEQ SODIUM INTAKE & CAN CAUSE CNS DISTURB.

TERATOGENIC IN RATS & IN SOME INSTANC ES IN HUMANS. ACUTE:

INHAL:MAY CAUSE SORE THROAT, COUGHING, DYSPNEA, LABORED BRTHG,
DELAYED PULM EDEMA,(EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HLTH HAZ:KIDNEY DAM, MENTAL CONFUSN, BLURRED
VISION & POSS PERIPHERAL NEUROPATHIES. SKIN:MAY CAUSE IRRIT & SOFT
NECROTIC DEEPLY PENETRATING BURNS. PENETRATION MAY CONTINUE FOR

SEVERAL DAYS. EYE:VAPS/F UMES MAY CAUSE IRRIT, REDNESS, PAIN,
BLURRED VISION, CONJ & BURNS. DIRECT CONT MAY CAUSE CONJ EDEMA &
DAM & (SUPP DATA)

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHAL:MOVE TO FRESH AIR IMMED. IF BRTHG HAS STOPPED, PERFORM
ARTF RESP. KEEP PERS WARM & AT REST. GET MD IMMED. SKIN:REMOVE
CONTAMD CLTHG WHILE RUNNING STREAMS OF WATER UNDER CLTHG. WASH

AFFECTED AREA W/SOAP OR MILD DETERGENT & LGE AMTS OFWATER UNTIL NO
EVID OF CHEM REMAINS (APPROX 15-20 MINS). IN CASE OF CHEM BURNS,
COVER AREA W/STERILE, DRY DRESING. BANDAGE SECURELY, BUT NOT TOO
(ING 5)

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

Flash Point:NON-FLAMMABLE

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR FOAM.

LARGE FIRES: WATER SPRAY, FOG OR ALCOHOL FOAM.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPRVD SCBA & FULL
PROT EQUIP

. CORR SOLID:EXTING USING AGENT SUITABLE FOR TYPE OF SURROUNDING
FIRE. MATL ITSELF DOES NOT BURN (ING 10)

Unusual Fire/Explosion Hazard:WHEN HEATED WILL EMIT CORROSIVE MIST.
WILL REACT W/METALS SUCH AS ALUMINUM, TIN & ZINC TO GENERATE
HYDROGEN GAS WHICH IS FIRE & EXPLOSIVE HAZARD.

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

Spill Release Procedures:OCCUP SPILL:DO NOT TOUCH SPILL MATL. STOP LEAK
IF W/OUT RISK. SMALL SPILL:TAKE UP W/SAND/OTH

ER ABSORB & PLACE INTO

CONTRS FOR LATER DISP. SMALL DRY SPILL:W/CLEAN SHOVEL PLACE INTO
CLEAN, DRY CONTR & C OVER. MOVE CONTRS FROM SPILL. LGE SPILL:(ING
9)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:HI

GH LEVELS: THE FOLLOWING MUST ALL BE

NIOSH/MSHA APPROVED:HIGH-EFFICIENCY PARTICULATE RESP W/FULL
FACEPIECE. SUPPLIED AIR RESP W/FULL FACEPIECE, HELMET OR HOOD. SCBA
W/A FULL FACEPIECE.

Ventilation:PROCESS ENCLOSURE, LOCAL EXHAUST OR GENERAL DILUTION
VENTILATION SYSTEM.

Protective Gloves:APPROPRIATE PROTECTIVE GLOVES.

Eye Protection:CHEM WORK GOGGS/FULL LENGTH FSHLD

Other Protective Equipment:EYE-WASH FOUNTAIN W/IN IMMED WORK AREA.

DELUGE SHOWER . APPROP PROT (IMP) CLTHG & EQ

UIP TO PVNT SKIN CONT.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

PH:1.0 N SOL.=14. EFTS OF OVEREXP:CORNEAL & EPISCLERAL DAM/DESTRUCTION.

INGEST:SEV PAIN DUE TO RAPID CORR BURN IN MOUTH, THROAT & ABDOM,
VOM, HEMATEMESIS, DIARR, ANOREXIA, DIZZ, COLLAPSE, COMA & DEATH .
IF DEATH DOES NOT OCCUR IN 24 HRS, GASTRIC OR ESOPHAGEAL
PERFORATION MAY CAUSE SEV ABDOM PAIN, RIGIDITY & (ING 2)

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

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Boiling Pt:B.P. Text:1695F,924C

Melt/Freeze Pt:M.P/F.P Text:842F,450C

Decomp Temp:Decomp Text:1695F,924C

Spec Gravity:2.5

pH:SUPDAT

Solubility in Water:12.8%

Appearance and Odor:COLORLESS OR WHITE, HYGROSCOPIC CRYSTALS OR
GRANULAR, FREE-FLOWING POWDER.

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

Stability Indicator/Materials to Avoid:YES

EXOTHERMIC RXN W/H*2O GENERATES CONSIDERABLE HEAT & FORMS CORR FUMES.

ACIDS/ACROLEIN & MANY METALS (EG ALUM & ZI

NC).
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:NONE HAZARDOUS.

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

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE W/FEDERAL, STATE
& LOCAL REGULATIONS .

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