

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 =====

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 .

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.