

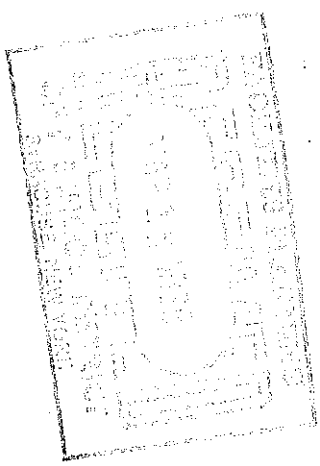
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IMPORTANT SAFETY INFORMATION --- DO NOT DISCARD.
 PLEASE ROUTE TO COMPANY SAFETY OFFICER.

FISHER SCIENTIFIC HAS A
 COMPLETE LINE OF SAFETY
 PRODUCTS AND INFORMATION
 FOR THE LABORATORY.
 CONTACT YOUR LOCAL FISHER
 BRANCH FOR FILMS, BRO-
 CHURES, CATALOGS AND PRO-
 DUCTS.

SYRACUSE CITY SCHOOL DIST
 644 MADISON ST
 SYRACUSE NY 13210



FOR EACH CHEMICAL, AN MSDS SHEET WILL BE
 SENT ONLY ON THE 1ST SHIPMENT UNLESS A
 SUBSTANTIAL REVISION OCCURS.

IF NAME AND/OR ADDRESS
 HAVE CHANGED, CONTACT
 YOUR FISHER SALES
 REPRESENTATIVE OR YOUR
 LOCAL FISHER BRANCH.

REQUIRED MATERIAL SAFETY DATA SHEETS (MSDS) NOT
 INCLUDED IN THIS MAILING WILL FOLLOW UNDER SEP-
 ARATE COVER.
 THIS PACKET MAY CONTAIN MSDS FOR PRODUCTS MAN-
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 SCIENTIFIC COMPANY. THESE MSDS WERE PREPARED
 BY THE MANUFACTURER AND FISHER DISCLAIMS ALL
 LIABILITY FOR THE CONTENT.

MSDS



~~LITHIUM CHLORIDE~~

PAGE 01 OF 04

~~LITHIUM CHLORIDE~~
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MATERIAL SAFETY DATA SHEET

FISHER SCIENTIFIC
CHEMICAL DIVISION
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FAIR LAWN NJ 07410
(201) 796-7100

EMERGENCY CONTACTS
GASTON L. PILLORI
(201) 796-7100

DATE 03/10/88
PO NBR: K 08839
ACCT: 818725-99
INDEX: 25880670110
CAT NO: 575461

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SUBSTANCE IDENTIFICATION

SUBSTANCE: ~~LITHIUM CHLORIDE~~ CAS-NUMBER 7447-41-8

TRADE NAMES/SYNONYMS:
ACC12885

CHEMICAL FAMILY:
INORGANIC SALT

MOLECULAR FORMULA: LI-CL MOL WT: 42.93

CERCLA RATINGS (SCALE 0-3): HEALTH=2 FIRE=0 REACTIVITY=0 PERSISTENCE=U

COMPONENTS AND CONTAMINANTS

COMPONENT: LITHIUM CHLORIDE PERCENT: 100

EXPOSURE LIMITS:
NONE ESTABLISHED

PHYSICAL DATA

DESCRIPTION: ODORLESS, WHITE CRYSTALS OR POWDER BOILING POINT: 1360 C

MELTING POINT: 61.3 C SPECIFIC GRAVITY: 2.07 VAPOR PRESSURE: NEGLIGIBLE

EVAPORATION RATE: NOT APPLICABLE PH: NEUTRAL/SLIGHTLY ALK

SOLUBILITY IN WATER: 75% ODOR THRESHOLD: NOT APPLICABLE

VAPOR DENSITY: NOT APPLICABLE

SOLVENT SOLUBILITY: ALCOHOL, ACETONE, AMYL ALCOHOL, PYRIDINE

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD:
WILL MELT IN OR NEAR A FLAME, AND THE LIQUID GENERATED MAY CAUSE THERMAL
BURNS. MAY EMIT HAZARDOUS FUMES. SEE REACTIVITY SECTION.

FLASH POINT: NOT APPLICABLE UPPER EXPLOSIVE LIMIT: NOT APPLICABLE

LOWER EXPLOSIVE LIMIT: NOT APPLICABLE AUTOIGNITION TEMP.: NOT APPLICABLE

FIREFIGHTING MEDIA:
SMALL FIRES- NOT APPLICABLE.

FIREFIGHTING:
WEAR RESPIRATORY PROTECTION.

TOXICITY

200 MG/KG ORAL-HUMAN LD50; 526 MG/KG ORAL-RAT LD50; 1165 MG/KG ORAL-MOUSE LD50
MUTAGENIC DATA (RTECS); REPRODUCTIVE EFFECTS DATA (RTECS); TUMORIGENIC DATA
(RTECS); CARCINOGEN STATUS: NONE.

HEALTH EFFECTS AND FIRST AID

INHALATION:
POSSIBLE IRRITANT/TOXIC.
ACUTE EXPOSURE-- DUST OR MIST MAY IRRITATE THE RESPIRATORY TRACT. PROLONGED
ABSORPTION IMPAIRS KIDNEY FUNCTIONS AND CAUSES DIZZINESS, HEADACHE AND
NAUSEA.

CHRONIC EXPOSURE- NO REPORTS FOUND.

FIRST AID- IMMEDIATELY REMOVE TO FRESH AIR. IF BREATHING WITH DIFFICULTY,
ADMINISTER OXYGEN. GET IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT:
POSSIBLE IRRITANT.
ACUTE EXPOSURE- DIST, MIST OR SOLUTION MAY IRRITATE SKIN.

CHRONIC EXPOSURE- NO REPORTS FOUND.

FIRST AID- FLUSH WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ASSISTANCE.

EYE CONTACT:
IRRITANT.
ACUTE EXPOSURE- DUST, MIST OR SOLUTION WILL IRRITATE EYES.

CHRONIC EXPOSURE- NO REPORTS FOUND.

FIRST AID- IMMEDIATELY FLUSH WITH WATER, AND CONTINUE FOR 15-20 MINUTES. GET
MEDICAL ASSISTANCE IMMEDIATELY.

INGESTION:
POSSIBLE IRRITANT/MODERATELY TOXIC.

FIRST AID- IF VICTIM IS CONSCIOUS, IMMEDIATELY GIVE 2-4 GLASSES OF WATER,
AND INDUCE VOMITTING BY TOUCHING FINGER TO BACK OF THROAT.

REACTIVITY

REACTIVITY: STABLE UNDER ORDINARY PRESSURES AT LEAST UP TO THE BOILING POINT, 1360 C.

INCOMPATIBILITIES:
PERMANGANATES: INCOMPATIBLE.

DECOMPOSITION:
NOT APPLICABLE (BOILS UNCHANGED AT 1360 C).

POLYMERIZATION:
WILL NOT OCCUR.

CONDITIONS TO AVOID

AVOID HEATING TO VICINITY OF THE BOILING POINT, 1360 C, WHERE TOXIC FUMES OF
LITHIUM CHLORIDE VAPORS ARE EMITTED.
AVOID CONTACT WITH, OR STORAGE WITH, INCOMPATIBLE MATERIALS, INCLUDING THOSE
LISTED IN REACTIVITY SECTION.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL:
PROVIDE VENTILATION AND/OR RESPIRATORY PROTECTION (SEE RESPIRATION SECTION,
BELOW). SWEEP UP WITH A MINIMUM OF DUSTING, AND COLLECT IN A SUITABLE
(I.E. FIBERBOARD) CONTAINER.

PROTECTIVE EQUIPMENT

VENTILATION:
PROVIDE LOCAL EXHAUST OR GENERAL DILUTION VENTILATION SYSTEM.

RESPIRATOR:
ANY DUST/MIST RESPIRATOR, EXCEPT THE SINGLE-USE OR THE QUARTER-MASK TYPE.

FIREFIGHTING- SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE
OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

CLOTHING:
EMPLOYEE MUST WEAR IMPERVIOUS CLOTHING AND EQUIPMENT TO PREVENT REPEATED OR
PROLONGED SKIN CONTACT WITH THIS SUBSTANCE, SOLUTIONS OR MISTS.

GLOVES:
WEAR IMPERVIOUS GLOVES AS NECESSARY, TO AVOID REPEATED OR PROLONGED CONTACT
WITH DUST, MIST, OR SOLUTION.

LITHIUM CHLORIDE

PAGE 04 OF 04

EYE PROTECTION:
EMPLOYEE MUST WEAR CHEMICAL SAFETY GOGGLES TO PREVENT EYE CONTACT WITH
SUBSTANCE, SOLUTION OR MIST. DO NOT WEAR CONTACT LENSES WHEN WORKING WITH
CHEMICALS.

AUTHORIZED - FISHER SCIENTIFIC GROUP, INC.
CREATION DATE: 11/13/85 REVISION DATE: 11/14/85

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