

EAGLE-PICHER INDUSTRIES INC -- KEEPER II/LITHIUM/THIONYL CHLORIDE BATTERY --
6135-01-438-4320

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

Product ID:KEEPER II/LITHIUM/THIONYL CHLORIDE BATTERY

MSDS Date:10/01/1992

FSC:6135

NIIN:01-438-4320

Status Code:A

MSDS Number: CJQTD

=== Responsible Party ===

Company Name:EAGLE-PICHER INDUSTRIES INC

Address:N BETHEL RD

Box:130

City:SENECA

State:MO

ZIP:64865

Country:US

Info Phone Num:417-776-2256

Emergency Phone Num:417-776-2256

Preparer's Name:U/K

Chemtrec Ind/Phone:(800)424-9300

CAGE:0B3X4

=== Contractor Identification ===

Company Name:EAGLE-PICHER INDUSTRIES INC

Address:14212 BETHEL ROAD

Box:130

City:SENECA

State:MO

ZIP:64865

Country:US

Phone:417-776-2256

CAGE:0B3X4

Company Name:LITTON SYSTEMS INC,GUIDANCE AND CONTROL SYSTEMS DIV

Address:19601 NORDHOFF ST

Box:City:NORTHRIDGE

State:CA

ZIP:91324-2422

Country:US

Phone:818-886-2211

CAGE:17863

===== C

Composition/Information on Ingredients =====

Ingred Name:LITHIUM (3.67 GRAMS)

CAS:7439-93-2

RTECS #:OJ5540000

Ingred Name:THIONYL CHLORIDE (SOCL2)

CAS:7719-09-7

RTECS #:XM5150000

ACGIH STEL:C4.9 MG/M3;C1 PPM

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

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

Health Hazards Acute and Chronic:BATTERY IS SEALED AND THERE IS NO DANGER OF OVEREXPOSURE UNDER NORMAL USE. IF BATTERY IS BROKEN, THE CONTENTS AR

E CORROSIVE: THIONYL CHLORIDE (SOCL2) WILL CAUSE IRRITATION OF EYES, SKIN AND RESPIRATORY SYSTEM. PROLONGED INHALATION OF FUMES MAY CAUSE LUNG DAMAGE.

Effects of Overexposure:BURNS AND IRRITATION OF EYES & SKIN. UPPER RESPIRATORY IRRITATION, COUGHING, DIFFICULTY IN BREATHING.

Medical Cond Aggravated by Exposure:LUNG DISEASES.

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

First Aid:IF THIONYL CHLORIDE IS RELEASED (FROM RUPTURED BATTERIES), EVACUATE AREA

AND PROVIDE VENTILATION, WASH EYES AND SKIN WITH WATER FOR 15 MINUTES. SEEK MEDICAL HELP.

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

Extinguishing Media:DO NOT USE WATER. USE DRY CHEMICAL, SODA ASH, SAND.

Fire Fighting Procedures:USE SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:SHORT CIRCUITING OF BATTERIES GENERATES ELEVATED TEMPERATURES, WHICH MAY RESULT IN FIRES.

===== Accidental Release M

asures =====

Spill Release Procedures:AVOID CONTACT IF VENT RUPTURE OR EXPLOSION HAS OCCURED. OTHERWISE PROTECT FROM HEAT, SHORT CIRCUIT OF TERMINALS. ACCUMULATION OF SHORTED BATTERIES MAY CAUSE DANGEROUS ELEVATED TEMPERATURES. WEAR GLOVES AND SAVE RUPTURED BATTEIES IN PLASTIC BAGS FOR DISPOSAL.

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

Handling and Storage Precautions:STORE IN A DRY AREA. DO NOT SHORT CIRCUIT, HEAT ABOVE 125C(257F), RECHARGE, DISASSEMBLE, INCINERATE OR EXPOSE TO WATER.

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

Respiratory Protection:WHEN HANDLING RUPTURED BATTERIES IS ENCLOSED AREAS WEAR SELF-CONTAINED BREATHING APPARATUS.

Ventilation:GENERAL

Protective Gloves:NEOPRENE FOR HANDLING RUPTURED BATTERIES.

Eye Protection:RECOMMENDED.

Supplemental Safety and Health

THERE IS NO DANGER OF OVEREXPOSURE WHEN HANDLING OR USING BATTERIES UNDER NORMAL CONDITIONS OF USE. TAKE PRE CAUTIONS IF BATTERIES ARE BORKEN/RUPTURED. DO NOT RECHARGE.

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

HCC:Z6

Appearance and Odor:SEALED SINGLE CELL BATTERIES, 3.6 VOLT OPEN CIRCUIT

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

Stability Indicator/Materials to Avoid:YES

WATER, HUMID AIR, ALKALIES,AND TEMPERATURE ABOVE 140C(284F).

Stability Condition to Avoid:VENT, RUPTURE OR EXPLOSION WILL RELEASE-THIONYL CHLORIDE(SOCL2).

Hazardous Deco

Composition Products:SOCL2, IN PRESENCE OF WATER OR HUMID
AIR HYDROCHLORIC ACID & SULFUR OXIDE.

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

Waste Disposal Methods:DISPOSE OF WASTE ACCORDING TO FEDERAL EPA, STATE
AND LOCAL REGULATIONS.

===== MSDS Transport Information =====

Transport Information:PER MSDS PSN: LITHIUM BATTERIES,9,UN3090,II.
THESE ARE SINGLE CELL BATTERIES CONTAINING 3.65 GRAMS OF LITHIUM
PER CELL/BATTERY.

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===== Other Information =====

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