

EAGLE-PINCHER INDUSTRIES,INC -- KEEPER II/LITHIUM/THIONYL CHLORIDE BATTERY --  
6135-01-315-9214

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

Product ID:KEEPER II/LITHIUM/THIONYL CHLORIDE BATTERY

MSDS Date:10/01/1992

FSC:6135

NIIN:01-315-9214

MSDS Number: CHHTW

=== Responsible Party ===

Company Name:EAGLE-PINCHER INDUSTRIES,INC

Address:BETHEL RD

Box:130

City:SENECA

State:MO

ZIP:64865

Country:US

Info Phone Num

:417-776-2256

Emergency Phone Num:417-776-2256/800-424-9300(CHEMTREC)

CAGE:81855

=== Contractor Identification ===

Company Name:EAGLE-PICHER INDUSTRIES, INC.

Address:C AND PORTER STS

Box:47

City:JOPLIN

State:MO

ZIP:64801

Country:US

Phone:417-623-8000

CAGE:81855

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

Ingred Name:LITHIUM METAL

CAS:7439-93-2

RTECS #:OJ5540000

Other REC Limits:NONE RECOMMENDED

Ingred Name:THIONYL CHLORIDE (SOCL2)

CAS:7719-09-7

RTECS #:XM5150000

Other

REC Limits:NONE RECOMMENDED

OSHA PEL:C 1 PPM

ACGIH TLV:C 1 PPM; 9596

===== 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:THIONYL CHLORIDE WILL BURN AND IRRITATE EYES AND SKIN, IRRITATE UPPER RESPIRATORY SYSTEM. CONTINUOUS INHALATION OF FUMES MAY CAUSE LUNG DAMAGE.

Explanation of

Carcinogenicity:NONE

Effects of Overexposure:SYMPTOMS OF OVEREXPOSURE TO THIONYL CHLORIDE FUMES: EYE AND SKIN IRRITATION, PUNGENT ODOR, AND RESPIRATORY IRRITATION.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:IF FREE THIONYL CHLORIDE IS PRESENT, EVACUTE AREA AND PROVIDE VENTILATION, WASH EXPOSED AREAS WITH SODA ASH OR SODIUM BECARBONATE SOLUTION. GET MEDICAL ATTENTION.

=====

===== 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:DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 125F, INCINERATE OR EXPOSE CONTENTS TO WATER, VENT, RUPTURE OR EXPLOSION MAY RESULT AND CAUSE SEVERE BURNS.

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

Spill Re

lease Procedures:AVOID CONTACT IF VENT, RUPTURE, OR EXPLOSION HAS OCCURED. OTHERWISE PROTECT FROM HEAT, SHORT CIRCUIT OF TERMINALS, AN ACCUMULATION OF SHORTED BATTERIES, WHICH MAY CAUSE DANGEROUS ELEVATED TEMPERATURES .

Neutralizing Agent:NEUTRALIZE THIONYL CHLORIDE WITH SODA ASH OR SODIUM BICARBONATE SOLUTION.

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

Handling and Storage Precautions:DO NOT SHORT CIRCUIT, HEAT ABOVE 125C (257F), RECHARGE, DISASSEM

BLE, INCINERATE, OR EXPOSE TO WATER.  
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:SELF-CONTAINED BREATHING APPARATUS IF EXPOSURE  
EXCEEDS RECOMMENDED LIMITS.  
Protective Gloves:NEOPRENE IF NEEDED.  
Eye Protection:RECOMMENDED.  
Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.  
Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.  
Supplemental Safety and Health  
NONE

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

HCC:N1  
Appearance and Odor:3.6 VOLT BATTERY,RECTANGULAR W/ROUNDED CORNERS,2.2  
IN. X 3.54 IN.X 2.13 IN.HIGH

===== 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 Decomposition Products:THIONYL CHLORIDE IN PRESENCE OF WAT  
ER  
OR HUMID AIR FORMS HYDROCHLORIC ACID AND SULFUR OXIDE.  
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE  
AND FEDERAL 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,  
expr

essly 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.