

SAFT AMERICA INC, POWER SOURCES DIV -- LITHIUM THIONYL CHLORIDE BATTERY --
6135-01-196-2135

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

Product ID:LITHIUM THIONYL CHLORIDE BATTERY

MSDS Date:03/01/1994

FSC:6135

NIIN:01-196-2135

MSDS Number: CGLFP

=== Responsible Party ===

Company Name:SAFT AMERICA INC, POWER SOURCES DIV

Address:711 INDUSTRIAL BLVD

Box:1886

City:VALDOSTA

State:GA

ZIP:31603

Country:US

Info Ph

one Num:912-247-2331

Emergency Phone Num:912-247-2331

CAGE:09052

=== Contractor Identification ===

Company Name:BATTERY ASSEMBLERS INC

Address:211-4 KNICKERBOCKER AVE

Box:City:BOHEMIA

State:NY

ZIP:11716

Country:US

Phone:407-323-3390/EM:516-567-8855/8278

CAGE:0B0Y5

Company Name:SAFT AMERICA INC.

Address:711 INDUSTRIAL BLVD

Box:1886

City:VALDOSTA

State:GA

ZIP:31602

Country:US

Phone:912-247-2331

CAGE:09052

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

Ingred Name:THIONYL CH

LORIDE
CAS:7719-09-7
RTECS #:XM5150000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 1 PPM
ACGIH TLV:C 1 PPM; 9596

Ingred Name:LITHIUM METAL
CAS:7439-93-2
RTECS #:OJ5540000
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS UNKNOWN.
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATOR
Y
& GI TRACTS. ACUTE- BATTERY IS HERMETICALLY SEALED. IF BROKEN OR IN
FIRE: INHALATION OF VAPORS MAY CAUSE EYE & RESPIRATORY TRACT
IRRITATION. INGESTION CAN BE HARM FUL. CAN HAVE CORROSIVE EFFECTS
ON SKIN.CHRONIC- UNKNOWN.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:IF BROKEN OR IN FIRE: IRRITATION, DRY THROAT,
COUGHING, BURNS, PAIN
Medical Cond Aggravated by Exposure:IF BROKEN, LEAKING OR IN FIRE:
ASTHMA AND OTHER RESPIRATORY DISEASES

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH
AIR. CALL PHYSICIAN. EYES:FLUSH WITH WATER FOR 15 MINUTES. HOLD
EYELIDS OPEN. SEE PHYSICIAN. SKIN:WASH WITH SOAP & WATER. ORAL:IF
BATTERY/ OPEN BATTERY IS INGESTED, DO NOT INDUCEVOMITING OR GIVE
FOOD/DRINK. SEEK IMMEDIATE MEDICAL ATTENTION. CALL NATIONAL BATTERY
INGESTION HOTLINE FOR ADVICE & FOLLOWUP (202-625-3333), DAY/NIGHT.

===== Fir

e Fighting Measures =====

Flash Point:NONE

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:FOR BURNING LITHIUM THIONYL CHLORIDE BATTERIES USE WATER OR CARBON DIOXIDE. USE CLASS D EXTINGUISHERS FOR RAW LITHIUM.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. HAZARDOUS DECOMPOSITION PRODUCTS MAY BE FORMED.

Unusual Fire/Explosion Hazard:HAZARDOUS DECOMPOSITION PRODUCTS MAY BE FORMED.

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

Spill Release Procedures:IF BROKEN, WEAR PROTECTIVE CLOTHING AND RESPIRATORY EQUIPMENT SUITABLE FOR TOXIC GASES. COVER WITH SODIUM CARBONATE. SWEEP, SCOOP OR PICK UP SPILLED MATERIAL. TRANSFER TO A SUITABLE CONTAINER FOR DISP OSAL.

Neutralizing Agent:SODIUM CARBONATE

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

Handling and Storage Precautions:STORE IN DRY, COOL (BELOW 50C/122F) PLACE, A

WAY FROM INCOMPATIBLES.

Other Precautions:DO NOT INCINERATE. DO NOT TOUCH BROKEN OR LEAKING BATTERIES. AVOID MECHANICAL OR ELECTRICAL ABUSE. DO NOT ATTEMPT TO RECHARGE. AVOID SHORT CIRCUITS. DO NOT CARRY BATTERIES LOOSE IN POCKET OR BAG. KEEP BATTERIES AWAY FROM SMALL CHILDREN.

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

Respiratory Protection:NOT NECESSARY UNDER NORMAL CONDITIONS OF USE. WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WHEN LARGE

NUMBERS OF CELLS ARE INVOLVED IN A FIRE.

Ventilation:ADEQUATE

Protective Gloves:RUBBER FOR LEAKERS

Eye Protection:GOGGLES FOR LEAKERS

Other Protective Equipment:EYE BATH, WASHING FACILITIES

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Safety and Health

NONE

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

HCC:Z6

NRC/State Lic Num:NOT RELEVANT

Melt/Free

ze Pt:=190.C, 374.F
Decomp Temp:=140.C, 284.F
Spec Gravity:>1
Viscosity:NOT RELEVANT
Evaporation Rate & Reference:NOT RELEVANT
Solubility in Water:INSOLUBLE
Appearance and Odor:BATTERY - ODORLESS

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

Stability Indicator/Materials to Avoid:YES
WATER, ALKALIS
Stability Condition to Avoid:FIRE, HEAT ABOVE 140C/284F, MOISTURE,
RECHARGING, SHORT CIRCUITING
Hazardous Decomposition Products:RUPTURED BATTERIES MAY RELEASE SULFUR
DIOXIDE, HYDROGEN, HYDROGEN CHLORIDE, CHLORINE, SULFUR DICHLORIDE,
SULFUR CHLORIDE

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND
FEDERAL REGULATIONS. PRODUCT DECOMPOSED BY WATER MUST BE
NEUTRALIZED.

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

Transport Information:EACH BATTERY CONTAINS 1.65 GRAMS OF LITHIUM.
THEREFORE, THESE BATTERIES ARE NOT REGULATED FOR T
RANSPORTATION, AS
PER 49 CFR 173.185 (C), IATA PROV A45, IMDG PAGE 9033A AND AFJM
A13.8.5. MFR'S P/N=LSH 14; DISTRIBUTOR'S P/N=BAI-514L.

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

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