

SAFT AMERICA INC ADVANCED BATTERY SYSTEMS DIVISION -- LITHIUM THIONYL CHLORIDE
BATTERY,C 10978-1 -- 6135-01-196-2135

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

Product ID:LITHIUM THIONYL CHLORIDE BATTERY,C 10978-1

MSDS Date:03/01/1994

FSC:6135

NIIN:01-196-2135

MSDS Number: CDYXJ

=== Responsible Party ===

Company Name:SAFT AMERICA INC ADVANCED BATTERY SYSTEMS DIVISION

Address:313 CRESCENT STREET

City:VALD

ESE

State:NC

ZIP:28690

Country:US

Info Phone Num:704-874-4111/CORP 912-247-2331

Emergency Phone Num:704-874-4111/800-424-9300(CHEMTREC)

CAGE:7X634

=== 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 ADVANCED BATTERY SYSTEMS DIVISION

Address:313 CRESCENT ST NE

Box:City:VALDESE

State:NC

ZIP:28690-9643

Country:US

Phone:828-

874-4111/912-245-2806

CAGE:7X634

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

Ingred Name:THIONYL CHLORIDE

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, RESPIRATORY & 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

Med

ical Cond Aggravated by Exposure:IF BROKEN, LEAKING OR IN FIRE: ASTHMA AND OTHER RESPIRATORY DISEASES

=====
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.

=====
Fire 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

=====
H

Handling and Storage =====

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

th

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

HCC:Z6

NRC/State Lic Num:NOT RELEVANT

Melt/Freeze Pt:M.P/F.P Text:374F,190C

Decomp Temp:Decomp Text:284F,140C

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.

Disclaimer (provided with this information by the co
mpiling 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.