

SAFT AMERICA INC ADVANCED BATTERY SYSTEMS DIVISION -- LS6 BA LITHIUM THIONYL  
CHLORIDE BATTERY -- 6135-01-301-8776

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

Product ID:LS6 BA LITHIUM THIONYL CHLORIDE BATTERY

MSDS Date:03/01/1994

FSC:6135

NIIN:01-301-8776

MSDS Number: BWZNK

=== Responsible Party ===

Company Name:SAFT AMERICA INC ADVANCED BATTERY SYSTEMS DIVISION

Address:LOVELADY LN

Box:280

City:VALDESE

St

ate:NC

ZIP:28690

Country:US

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

Emergency Phone Num:704-874-4111/MD 410-771-3200

CAGE:7X634

=== Contractor Identification ===

Company Name:PLAINVIEW BATTERIES INC

Address:23 NEWTOWN RD

Box:City:PLAINVIEW

State:NY

ZIP:11803

Country:US

Phone:516-249-2873

CAGE:0LEJ1

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

Company

Name:SAFT AMERICA INC, ADVANCED BATTERY SYSTEMS DIV  
Address:107 BEAVER COURT  
Box:City:COCKEYSVILLE  
State:MD  
ZIP:21030-2106  
Country:US  
Phone:912-247-2331/800-328-6807  
CAGE:31586  
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:LITHIUM METAL  
CAS:7439-93-2  
RTECS #:OJ5540000  
Other REC Limits:NONE RECOMMENDED

Ingred Name:THION  
YL CHLORIDE  
CAS:7719-09-7  
RTECS #:XM5150000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C 1 PPM  
ACGIH TLV:C 1 PPM; 9495

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: IF CELL SEAL IS BROKEN, THE  
SUBSTANCE & VAPORS HAVE A CORROSIVE EFFECT ON THE SKIN & MUCOUS  
MEMBRANES. MAY CAUSE BURNS AND IRRITATION TO RESPIRATORY TRA

CT.

CHRONIC: NONE SPECIFIED BY MANUFACTURER.

Explanation of Carcinogenicity: NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.

Effects of Overexposure: INHALED-COUGHING, SHORTNESS OF BREATH, BURNING SENSATION IN CHEST. SKIN-BURNING SENSATION, REDNESS, STINGING/DISCOMFORT. EYES-PAIN, REDNESS, TEARING, DISCOMFORT.

Medical Conditions Aggravated by Exposure: ASTHMA & OTHER RESPIRATORY DISEASES.

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

First Aid: EYES-FLUSH WITH LOTS OF WATER FOR 15 MINUTES. SKIN-REMOVE CONTAMINATED CLOTHES. WASH WITH LOTS OF WATER. INHALED-REMOVE FROM EXPOSURE. SEEK MEDICAL ADVICE.

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

Extinguishing Media: WATER OR CARBON DIOXIDE ON BURNING LITHIUM THIONYL CHLORIDE CELLS OR BATTERIES. USE CLASS D AGENT ON RAW LITHIUM FIRE.

Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard: GENERATION OF CHLORINE, SULFUR DIOXIDE, DISULFUR DICHLORIDE DURING THERMAL DECOMPOSITION.

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

Spill Release Procedures: COVER WITH SODIUM CARBONATE OR 1:1 MIXTURE OF SODA ASH & SLAKED LIME. SCOOP INTO CONTAINER FOR LATER DISPOSAL. PRECIPITATE ANY ESCAPING GASES/VAPORS WITH WATER SPRAY. ENSURE ADEQUATE VENTILATION OR EXHAUST VENTILATION IN AREA.

Neutralizing Agent: SODIUM CARBONATE OR 1:1 MIXTURE OF SODA ASH & SLAKED LIME.

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

Handling and Storage Precautions: KEEP CONTAINER DRY AND TIGHTLY CLOSED IN A COOL (MAX. TEMP. 50C) AND WELL-VENTILATED PLACE. KEEP ONLY IN ORIGINAL CONTAINER.

Other Precautions: HANDLE & OPEN CONTAINER WITH CARE. ENSURE EFFECTIVE VENTILATION. IF CONTAMINATION WITH MOISTURE OCCURS, PRODUCT WILL RELEASE GAS CAUSING PRESSURE BUILD-UP WHICH COULD RESULT IN DRUM

(SPILL WASTE) RUPT URE.

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

Respiratory Protection:NONE SPECIFIED BY MANUFACTURER.DLA-HMIS:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS;WEAR AN MSHA/NIOSH APPROVED RESPIRATOR OR AN AIR-SUPPLIED RESPIRATOR OR SCBA,AS REQUIRED. USE IN ACCORDANCE WITH 29 CFR 1910.134.

Ventilation:NONE SPECIFIED BY MANUFACTURER.USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:DLA-HMIS (SPILL): NEOPRENE, PVC.

Eye Protection:SAFETY GLASSES W/SIDE SHIELDS.

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER. DLA-HMIS: EYE WASH STATION & SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health  
NONE

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

HCC:Z6

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

Spec Gravity:>1

Solubility in Water:INSOLUBLE

Appearance and Odor:BATTERY, LITHIUM, 3.6 VOLTS, 0.579 X 1.990 INCHES,  
SHELF LIFE=1.0 YEARS.

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

Stability Indicator/Materials to Avoid:YES  
WATER, ALKALIS.

Stability Condition to Avoid:HEATING, MECHANICAL ABUSE, ELECTRICAL ABUSE (IE. RECHARGING, VOLTAGE REVERSAL, SHORT CIRCUITING) MAY RESULT IN VENTING.

Hazardous Decomposition Products:HYDROGEN, SULFUR DIOXIDE, SULFUR CHLORIDE, DISULFUR DICHLORIDE, CLHLORINE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:PRODUCT DECOMPOSED BY WATER MUST BE NEUTRALIZED. MAY BE ADDED TO WASTE WATER IN SUFFICIENTLY DILUTED FORM. DISPOSE OF 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 t

he 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.