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Product ID:LS 14250 LITHIUM THIONYL CHLORIDE BATTERY MSDS Date:03/01/1994 FSC:6135 NIIN:01-435-4921 MSDS Number: CGLHZ === Responsible Party === Company Name:SAFT AMERICA INC ADVANCED BATTERY SYSTEMS DIVISION Address:LOVELADY LN Box:280 City:VALDES E State: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 Contract Num:SP0430-01-1M-G643 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:828-874-41

11/912-245-2806 CAGE:7X634 Company Name:TNR TECHNICAL INC Address:301 CENTRAL PARK DR Box:City:SANFORD State:FL ZIP:32771 Country:US Phone:407-321-3011 Contract Num:SP0430-00-M-G364 CAGE:1HJ92

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

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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 TRACT. CHRONIC: NONE SPECIFIED BY MANUFACTUR ER. Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%

OR GREATER IS LISTED AS A CARCINOGEN OR SUEPECTED CARCINOGEN. Effects of Overexposure:INHALED-COUGING, SHORTNESS OF BREATH, BURNING SENSATION IN CHEST. SKIN-BURNING SENSATION, REDNESS, STINGING/ DISCOMFORT. EYES-PAIN, REDNESS, TEARING, DISCOMFORT. Medical Cond Aggravated by Exposure:ASTHMA & OTHER RESPIRATORY DISEASES.

First Aid:EYES-FLUSH WITH LOTS OF WATER FOR 15 MINUTES. SKIN-REMOVE CONTAMINATED CLOTHES. WA

SH WITH LOTS OF WATER. INHALED-REMOVE FROM EXPOSURE. SEEK MEDICAL ADVICE.

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 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, SULFURE DIOXIDE, DISULFUR DICHLORIDE DURING THERMAL DEC OMPOSITION.
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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 EX HAUST VENTILATION IN AREA. Neutralizing Agent:SODIUM CARBONATE OR 1: MIXTURE OF SODA ASH & SLAKED LIME.
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Ha ndling 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.
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 Respiratory Protection:NONE SP ECIFIED 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 E

quipment: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

HCC:V1 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 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.

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Waste Disposal Methods:PRODUCT DECOMPOSED BY WATER MUST BE NEUTRALIZED. MAY BE ADDED TO WATE WATER IN SUFICIENTLY DILUTED FORM. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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