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Product ID:LITHIUM THIONYL CHLORIDE BATTERY MSDS Date:04/28/1998 FSC:6135 NIIN:01-370-2599 MSDS Number: CKHZY === Responsible Party === Company Name:SAFT AMERICA INC ADVANCED BATTERY SYSTEMS DIVISION Address:313 CRESCENT ST NE City:VALDESE State:NC ZIP:2869 0-9643 Country:US Info Phone Num:828-874-4111MD 410-771-3200 Emergency Phone Num:704-874-4111/MD 410-771-3200 Chemtrec Ind/Phone:(800)424-9300 CAGE:7X634 === Contractor Identification === Company Name: BATTERY MARKETING ASSN. (AKA: SUNN BATTERY CO.) Address:1316 W ADAMS Box:City:JACKSONVILLE State:FL ZIP:32204 Country:US Phone:800-226-4508/904-354-4508 CAGE:1LWY3 Company Name: HAWKER ETERNACELL, INC. Address:495 BOULEVARD Box:City:ELMWOOD PARK State:NJ ZIP:07407-2029 Country:US Phone:201-796-4800 /FAX: 201-796-6243 Contract Num:SP0430-98-M-JA42 CAGE:5G978 Company Name: KAMPI COMPONENTS CO., INC. Address:210 RT 13 Box:721 City:BRISTOL State:PA ZIP:19007-3517 Country:US Phone:215-736-2000 Contract Num:SP0430-99-M-AC15 CAGE:7Z016 Company Name: PLAINVIEW BATTERIES INC Address:23 NEWTOWN RD Box:City:PLAINVIEW State:NY ZIP:11803 Country:US Phone:516-249-2873

ty:VALDESE State:NC ZIP:28690-9643 Country:US Phone:828-874-4111/912-245-2806 CAGE:7X634 Company Name:SAFT AMERICA INC PORTABLE BATTERY DIVISION Address:711 INDUSTRIAL BLVD Box:1886 City:VALDOSTA State:GA ZIP:31601 Country:US Phone:912-247-2331 CAGE:67237

Ingred Name:LITHIUM METAL (0.33 GRAM PER CELL/BATTERY) CAS:7439-93-2 RTECS #:OJ5540000 Other REC Limits:NONE RECOMMENDED

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; 9495

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 B Y 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:BURNS AND IRRITATION TO RESPIRATORY SYSTEM.
Medical Cond Aggravated by Exposure:ASTHMA & OTHER RESPIRATORY DISEASES.

First Aid:IN CASE OF CONTACT WITH EYES, FLUSH IMMEDIATELY WITH WATER FOR 15 MINUTES; WITH SKIN, WASH WITH PLENTY OF WATER AND TAKE OFF CONTAMINATED CLOTHES; INHALATION, REMOVE FROM EXPOSURE - SEEK MEDICAL ADVIS E.

Extinguishing Media:USE A CLASS D FIRE EXTINGUISHING AGENT. Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS. Unusual Fire/Explosion Hazard:GENERATION OF CHLORINE, SULFURE DIOXIDE, DISULFUR DICHLORIDE DURING THERMAL DECOMPOSITION.

Spill Relea

se 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 E XHAUST VENTILATION IN AREA. Neutralizing Agent:SODIUM CARBONATE OR 1:1 MIXTURE OF SODA ASH & SLAKED LIME.

Handling and Storage Precautions: KEEP CONTAINER DRY AND TIGHTLY CLOSED, STORE IN A COOL (M

AX. TEMP. 50C) AND WELL-VENTILATED

PLACE.STORE AWAY FROM FOOD AND DRINK.

Other Precautions: IF CONTAMINATION WITH MOISTURE OCCURS, PRODUCT WILL RELEASE GAS CAUSING PRESSURE BUILD-UP WHICH COULD RESULT IN DRUM RUPTURE.

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

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS. Work Hygienic Practices:KEEP ONLY IN THE ORIGINAL CONTAINER. HANDLE AND OPEN CONTAINER WITH CARE. ENSURE EFFECTIVE VENTILATION. Supplemental Safety and Health PART # LS14250C. AMOUNT OF LITHIUM PER CELL/BATTERY IS 0.33 GRAMS.

HCC:Z6 Boiling Pt:=75.C, 167.F Melt/Freeze Pt:=-106.C, -158.8F Vapor Pres:.04 BAR @ +20 DEG C Spec Gravity:1.64 (H2O=1) pH:NONE PROVIDED Solubility in Water:DECOMPOSED BY WATER Appearance and Odor:BATTERY, LITHIUM, (CONTAINS COLORLESS LIQUID WITH PUNGENT ODOR).

Stability Indi

cator/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. CELLS ARE NOT REACTING PROVIDED THE CELL SEAL REMAINS INTACT.

Hazardous Decomposition Products:HYDROGEN, SULFUR DIOXIDE, SULFUR CHLORIDE, DISULFUR DICHLORIDE, CHLORINE. Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Transport Information: PROPER SHIPPING NAME: LITHIUM BATTERIES. UN-DOT HAZARD CLASS: CLASS 9. UN ID NO.: UN3090. HAZARD LABEL: MISCELLANEOUS HAZARD. CONTAINER MARKING: MISCELLANEOUS HAZARD. PLACARD: MISCELLANEOUS

HAZARD. N OTE: REGULATIONS FOR THE SHIPMENT OF LAITHIUM BATTERIES, WITH CELLS CONTAINING NO MORE THAN 12 GRAMS ARE COVERED IN PACKING INSTRUCTION 903. ***BUT, EACH BATTERY CONTAINS LESS THAN 0.5 GRAMS OF LITHIU M. THEREFORE, THESE BATTERIES ARE NOT REGULATED FOR TRANSPORTATION, AS PER 49 CFR 173.185 (B)(10), IATA PROV A45, IMDG PAGE 9033A AND AFJM A13.8.5.

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