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SAFT AMERICA INC ADVANCED BATTERY SYSTEMS DIVISION -- LITHIUM SULFUR DIOXIDE BATTERY -- 6135-01-071-4923

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

Product ID:LITHIUM SULFUR DIOXIDE BATTERY

MSDS Date:09/19/1988

FSC:6135

NIIN:01-071-4923

MSDS Number: BJMHT === Responsible Party ===

Company Name: SAFT AMERICA INC ADVANCED BATTERY SYSTEMS DIVISION

Address:313 CRESCENT ST

Box:280

City: VALDESE

State:NC ZIP:286

90

Country:US

Info Phone Num:704-874-4111

Emergency Phone Num:704-874-4111

CAGE:7X634

=== Contractor Identification ===

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:LITHIUM METAL

CAS:7439-93-2

RTECS #:OJ5540000 Fraction by Wt: 4%

Ingred Name: SULFUR DIOXIDE (SARA III)

CAS:74

46-09-5

RTECS #:WS4550000 Fraction by Wt: 30%

OSHA PEL:5 PPM/5 STEL

ACGIH TLV:2 PPM/5 STEL; 9293

Ingred Name: ACETONITRILE (SARA III)

CAS:75-05-8

RTECS #:AL7700000 Fraction by Wt: 10%

OSHA PEL:40PPM/60 STEL

ACGIH TLV:40PPM/60STEL: 9192

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:HNDL/STOR PREC:SPRINKLER-PROT,NON-COMBUST STRUCTURE W/ADEQ CLEARANCE BETWN WALL/BATTERY STACK.BATTERY SHLD BE(SEE ING 5) RTECS #:9999999ZZ

Ingred Name:ING 4:SEPARATED FROM OTHR MATL.AIR-CONDITIONING/COOL ING IS

NOT REQUIRED UNLESS EXCESSIVELY HIGH TEMPS WILL BE(SEE ING 6) RTECS #:9999999ZZ

Ingred Name:ING 5:ENCOUNTERED BUT BATTERIES SHOULD BE KEPT AS COOL AS POSSIBLE TO MAXIMIZE SHELF LIFE. TEMP ABOVE 160F (SEE ING 7) RTECS #:9999999ZZ

Ingred Name:ING 6:SHLD BE AVOIDED.HERMETICALLY SEALED LITHIUM CELLS DO NOT OUTGAS.BUT IF EXPOSED TO EXTREME TEMP OR ROUGH(SEE ING 8) RTECS #:9999999ZZ

Ingred Name:ING 7:HANDLNG,THEY MAY RELEASE SO*2 GAS IF VENT IS ACTIVATED OR BATTERY DAMAGED. A WELL-VENTED STORAGE AREA (SEE ING 9)

RTECS #:9999999ZZ

Ingred Name:ING 8:SHLD BE USED TO PREVNT INADVERTENT CONC OF GAS IF EXTREMES ARE ANTICIPATED.IF LG QUANTITY OF BATTERIES(SEE ING 10) RTECS #:9999999ZZ

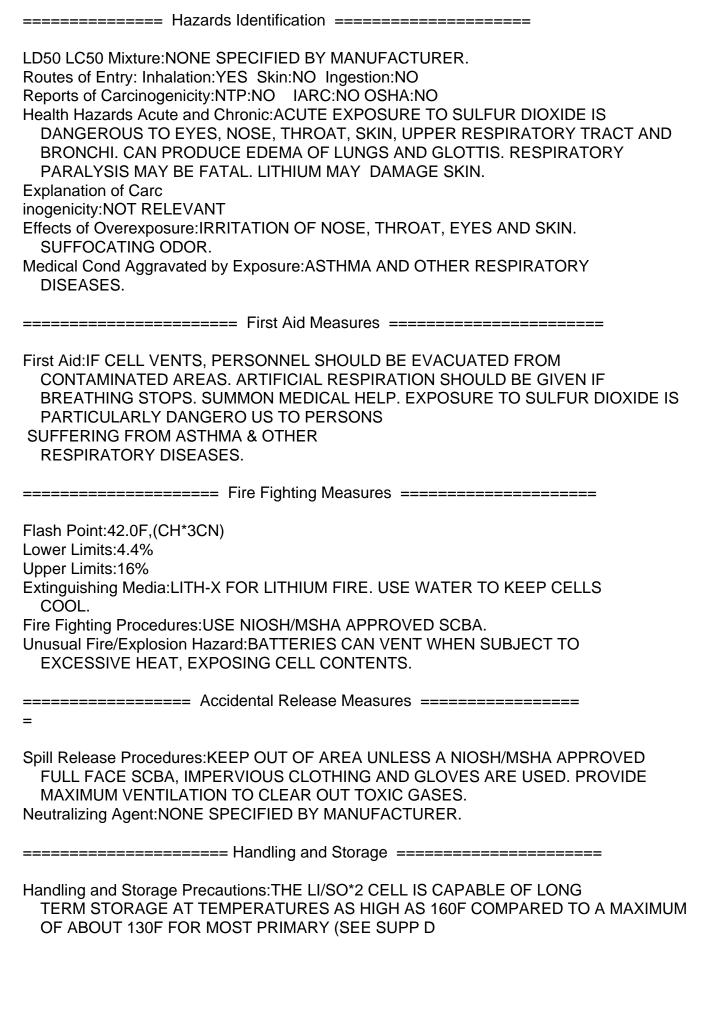
Ingred Name:ING 9:STORED, IT MAY BE ADVISABLE TO INSTALL ALARM DEVICES IN STORAGE AREA TO DETECT SMOKE OR ACCUMULATION OF GASES.

RTECS #:9999999ZZ

Ingred Name:PHYS/CHEM CHAR:PHYSICAL AND CHEMICAL CHARACTERISTICS ARE FOR LITHIUM METAL, INGREDIENT 1.

RTECS #:9999992Z

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ATA) Other Precautions: DO NOT REMOVE OR BYPASS ELECTRICAL OR THERMAL FUSES. DO NOT HEAT ABOVE 200F. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS. Ventilation: IN EVENT OF VENTS, PROVIDE MAXIMUM POSSIBLE AMOUNT OF VENTILATION. Protective Gloves: IMPERVIOUS Eve Protection: CHEMICAL WORKERS GOGGLES. Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER. Work Hygienic Practices:NO NE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health HNDLG/STOR PREC:BATTERY SYSTEMS. STORAGE FOR MORE THAN ONE YEAR AT 160F HAS BEEN DEMONSTRATED. STORAGE AT LOWER TEMPS WILL IMPROVE CAPACITY RETENTION OF BATTERY. FOR EXAMPLE, A SHELF LIFE OF 10 YEARS IS PROJECTED FOR STORAGE AT 70F. LI/SO*2 CELLS AND BATTERIES SHOULD BE STORED IN A WELL-VENTILATED, (SEE INGRED 4) ========= Physical/Chemical Properties =========== Boiling Pt:B.P. Text:2400F,1316C Mel t/Freeze Pt:M.P/F.P Text:357F,181C Spec Gravity:0.5 Appearance and Odor: SILVERY-WHITE SOFT METALLIC SOLID; ODORLESS. (SEE INGREDIENT 11). ======== Stability and Reactivity Data =========== Stability Indicator/Materials to Avoid:YES Stability Condition to Avoid:BATTERY CNTNS HERMETICALLY SEALED CELLS,& IS NONREACTIVE PROVIDED BATTERY INTEGRITY IS MAINTAINED/CELL SEAL IS INTACT. Conditions to Avoid Polymerization: HEATING, MECHANICAL ABUSE THAT MAY PRODUCE VENTING ELECTRICAL ABUSE SUCH AS RECHARGING VOLTAGE REVERSAL/SHORT-CIRCUITING.

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

Waste Disposal Methods:CELLS ARE CONSIDERED TO BE A HAZARDOUS WASTE BECAUSE OF REACTIVITY. LAND DISPOSAL IS PROHIBITED UNLESS CELLS ARE TREATED SO AS TO RENDER THEM NON-REACTIVE. DISPOSE I/A/W FEDERAL, STATE AND LOCAL REGUL ATIONS.

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