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SAFT AMERICA INC ADVANCED BATTERY SYSTEMS DIVISION -- LITHIUM SULFUR DIOXIDE

Product ID:LITHIUM SULFUR DIOXIDE BATTERY, BA-5600/U

MSDS Date:01/31/1992

FSC:6135

NIIN:01-168-2944

MSDS Number: BVRFZ === Responsible Party ===

Company Name: SAFT AMERICA INC ADVANCED BATTERY SYSTEMS DIVISION

Address:313 CRESCENT STREET

Box:280 City: VALDESE 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)

Preparer's Name: JAYNE MERCER

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

CAS:7439-

93-2

RTECS #:OJ5540000 Fraction by Wt: 2.0%

Other REC Limits: NONE RECOMMENDED

Ingred Name: SULFUR DIOXIDE (SARA III)

CAS:7446-09-5

RTECS #:WS4550000 Fraction by Wt: 22.0%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:2 PPM/5 PPM STEL ACGIH TLV:2 PPM/5.2 PPM STEL

Ingred Name: ACETONITRILE (SARA III)

CAS:75-05-8

RTECS #:AL7700000 Fraction by Wt: 6.0%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:40 PPM/60 PPM STEL ACGIH TLV:40 PPM/67 PPM STEL

EPA Rpt Qtv:5000 LBS

YLENE BLACK (CARBON BLACK) CAS:1333-86-4 RTECS #:FF5800000 Fraction by Wt: 4.0% Other REC Limits: NONE RECOMMENDED OSHA PEL:3.5 MG/M3 ACGIH TLV:3.5 MG/M3 ========== Hazards Identification =============== LD50 LC50 Mixture:NOT KNOWN Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: THE SEALED BATTERY DOES NOT PRESENT A HEALTH HAZARD. IF THEBATTERY IS DAMAGED OR THE VENT IS ACTIVATED. THE SULFUR DIOXIDE CAN CAUSE SKIN BURNS, EYE, NOSE & THROAT IRRITATION, AND EVEN CHOKING. **Explanation of Carcinogenicity:NONE** Effects of Overexposure: IRRITATION OF NOSE, THROAT, EYES AND/OR SKIN; SUFFOCATING ODOR. DEPENDING ON THE CONCENTRATION OF SULFUR DIOXIDE, IT CAN ACT AS AN ASPHYXIANT AND MAY POSSIBLY CAUSE UNCONSCIOUSNESS WITH NO KNOWN CHRON IC HEALTH EFFECTS. Medical Cond Aggravated by Exposure: SULFUR DIOXIDE MAY AGGRAVATE ASTHMA AND OTHER RESPIRATORY DISEASES. First Aid:EYES:FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES . INGESTION: DRINK TWO GLASSES OF WATER TO DILUTE. INHALATION: REMOVE PERSON FROM CONTAMINATED AREA TO FRESH AIR. IF CELL VENTS, PERSO NNEL SHOULD BE EVACUATED FROM CONTAMINATED AREAS.ARTIFICIAL RESPIRATION SHOULD BE GIVEN IF BREATHING STOPS. Flash Point: NONFLAMMABLE Lowe r Limits:NOT KNOWN **Upper Limits:NOT KNOWN** Extinguishing Media: USE WATER/CARBON DIOXIDE ON BURNING CELLS OR BATTERIES.USE CLASS D FIRE EXTINGUISHING AGENT ONLY ON A RAW LITHIUM FIRE. Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS. Unusual Fire/Explosion Hazard:BATTERY MAY VENT WHEN SUBJECTED TO EXCESSIVE HEAT, EXPOSING CELL CONTENTS. ======== Accidental Release Measures ============ Spill Release Procedures: KEEP OUT OF AREA UNLESS USING IMPERVIOUS

GLOVES AND CLOTHING, AND FULL-FACE BREATHING APPARATUS. PROVIDE MAXIMUM VENTILATION TO CLEAR OUT HAZARDOUS GASES.

Neutralizing Agent:NOT KNOWN

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

Handling and Storage Precautions:STORE IN WELL VENTILATED, SPRINKLER-PROTECTED, NONCOMBUSTIBLE STRUCTURE W/CLEARANCE BETWEEN THE WALLS & BATTERY STACKS.AVOID TEMP >160F.(SEE SUPP DAT

Other Precautions:DO NOT REMOVE OR BYPASS ELECTRICAL OR THERMAL FUSES. DO NOT HEAT ABOVE 200F.

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

Respiratory Protection: CONTACT LOCAL SAFETY/INDUSTRIAL HYGIENE OFFICE TO DETERMINE IF RESPIRATORY PROTECTION IS REQUIRED.

Ventilation: CONTACT LOCAL SAFETY/INDUSTRIAL HYGIENE OFFICE TO DETERMINE IF LOCAL EXHAUST VENTILATION IS NEEDED.

Protective Gloves:NOT KNOWN
Eye Protection:NOT KNOWN
Other Protective Equipment:NOT KNOWN
Work Hygienic Practices:NOT KNOWN
Supplemental Safety and Health
MATLS TO AVOID:AND

THE CELL SEAL REMAINS INTACT. HANDLG/STOR

PRECAUTIONS:IF EXPOSED TO EXTREME TEMPERATURES OR ROUGH HANDLING THE BATTERY MAY RELEASE SULFUR DIOXIDE GAS IF VENT IS ACTIVATED OR BATTERY DAMAGED. IF LARGE QUANTITIES OF BATTERIES ARE STORED,INSTALL ALARM DEVICES IN THE STORAGE AREA.

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

HCC:Z6
Boiling Pt:B.P. Text:NOT KNOWN
Melt/Freeze Pt:M.P/F.P Text:>200F,>93C
Decomp Temp:Decomp Text:NOT KNOWN
Vapor Pres:NOT KNOWN

apor Density:NOT KNOWN Spec Gravity:>1 (WATER=1) Evaporation Rate & Reference:NOT KNOWN Solubility in Water:INSOLUBLE Appearance and Odor:7.4 HIGH X 1.6 WIDE X 1.6 LONG INCH BATTERY
========= Stability and Reactivity Data ==========
Stability Indicator/Materials to Avoid:YES BATTERY CONTAINS HERMETICALLY SEALED CELLS & IS NONREACTIVE PROVIDED THE BATTERY INTEGRITY IS MAINTAINED (SEE SUPP DATA)
Stability Condition to Avoid:HEATING, MECHANICAL OR ELECTRICAL ABUSE (SU
CH AS RECHARGING, VOLTAGE REVERSAL & SHORT CIRCUITING) MAY CAUSE VENTING
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:DISPOSAL MUST BE IAW W/ FEDERAL,STATE,AND LOCAL REGULATIONS.COORDINATE WITH SUPPORTING INSTALLATION AND/OR MACOM ENVIRONMENTAL OFFICE PRIOR TO DISPOSAL.

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