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## SAFT AMERICA INC -- LITHIUM BATTERY -- 6135-01-216-9771

Product ID:LITHIUM BATTERY

MSDS Date:08/20/1991

FSC:6135

NIIN:01-216-9771

MSDS Number: BNNJM === Responsible Party ===

Company Name: SAFT AMERICA INC

Address:107 BEAVER CT City:COCKEYSVILLE

State:MD ZIP:21030 Country:US

Info Phone Num:301-771-3200

Emergency Phone Num:301-771-3200

Preparer's Name: DGSC-SSH

CAG E:31586

=== Contractor Identification ===

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

======= Composition/Information on Ingredients ========

Ingred Name:LITHIUM

CAS:7439-93-2

RTECS #:OJ5540000 Fraction by Wt: 1.8%

Other REC Limits: NONE SPECIFIED

Ingred Name: SULFUR DIOXIDE (SARA III)

CAS:7446-09-5

RTECS #:WS4550000 Fraction by Wt: 17%

Other

REC Limits:NONE SPECIFIED 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: 6%

Other REC Limits: NONE SPECIFIED

OSHA PEL:40PPM/60 STEL

ACGIH TLV:40PPM/60STEL; 9192

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

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 2730 MG/KG (CH3CN)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicit

y:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EXPOSURE TO ACETONITRILE MAY CAUSE ASPHYXIA, NAUSEA, VOMITING, CHEST PAINS, WEAKNESS, STUPOR, CONVULSIONS AND EYE IRRITATION. PROLONGED OR REPEATED OVEREXPOSURE MAY DAMAGE THE KIDNEYS, LIVER, CVS, CNS, LUNGS, SKIN AND EYES. LITHIUM FOIL OXIDIZES TO A CAUSTIC SMOKE (LITHIUM OXIDE) WHICH MAY CAUSE CHEMICAL BURNS.

Explanation of Carcinogenicity: NONE OF THE HAZARDOUS INGREDIENTS ARE LISTED AS CARCINOGENIC TO HUMANS

BY IARC, NTP OR OSHA.

Effects of Overexposure:EXPOSURE TO ACETONITRILE MAY CAUSE ASPHYXIA, NAUSEA, VOMITING, CHEST PAINS, WEAKNESS, STUPOR, CONVULSIONS AND EYE IRRITATION OR BURNS.

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid:FOR SULFUR DIOXIDE EXPOSURE: REMOVE TO VENTILATED AREA. CONSULT PHYSICIAN. FOR LIQUID ACETONITRILE EXPOSURE: FLUSH WITH WATER AND SEEK MEDICAL ATTENTION.

TREAT AS FOR ACUTE CYANIDE EXPOSURE.

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

Extinguishing Media:LITH-EX IS THE ONLY RECOMMENDED EXTINGUISHING AGENT FOR A LITHIUM FIRE. DO NOT USE WATER, CO2, DRY CHEMICAL, HALON, FOAM

Fire Fighting Procedures: USE WATER SPRAY OR CARBON DIOXIDE TO LOWER TEMPERATURE & EXTINGUISH FIRES IN PACKING MATERIAL. USE SELF CONTAINED BREATHING APPARATUS & PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard: EXPOSURE TO TEMPER

THE BATTERY TO VENT OR EXPLODE, RELEASING SULFUR DIOXIDE GAS, LIQUID ACETONITRILE, AND LITHIUM OXIDE FUMES.
======== Accidental Release Measures ==========
Spill Release Procedures:EVACUATE AND VENTILATE AREA. Neutralizing Agent:EXPOSED LITHIUM FOIL SHOULD BE SUBMERSED IN MINERAL OIL TO STOP OXIDATION.
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Handling and Storage Precautions:DO NOT RECHARGE, SHORT CIRCUIT,
UNCTURE OR MUTILATE IN ANY WAY OR EXPOSE TO TEMPERATURES IN EXCESS OF 85C(185F). Other Precautions:NONE
====== Exposure Controls/Personal Protection ========
Respiratory Protection:NONE NORMALLY REQUIRED. Ventilation:NONE NORMALLY REQUIRED. Protective Gloves:NONE NORMALLY REQUIRED. Eye Protection:NONE NORMALLY REQUIRED. Other Protective Equipment:USE PROTECTIVE EQUIPMENT AS REQUIRED FOR RUPTURED BATTERIES. Work Hygienic Practices:NO SPECIAL REQUIREMENTS FOR NORMAL HANDLIN G AND USE. Supplemental Safety and Health NONE
========= Physical/Chemical Properties ==========
HCC:Z6 Decomp Temp:=85.C, 185.F Appearance and Odor:NO DESCRIPTION OF BATTERY IS AVAILABLE.
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS Stability Condition to Avoid:TERMINALS SHOULD NOT BE EXPOSED TO WATER, CONDUCTIVE MATERIALS OR CORROSIVE COMPOUNDS. Hazardous Decomposition Produ

ATURES >85C MAY CAUSE

cts:RUPTURED BATTERIES WILL RELEASE SULFUR DIOXIDE, LIQUID ACETONITRILE, AND LITHIUM OXIDE.

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

Waste Disposal Methods:EXPENDED LITHIUM BATTERIES MUST BE CONSIDERED AS AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL DISPOSAL LAWS AND REGULATIONS.

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