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SAFT AMERICA INC, POWER SOURCES DIV -- NICKEL CADMIUM SEALED CELL BATTERY --

6140-01-211-9906

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

Product ID:NICKEL CADMIUM SEALED CELL BATTERY

MSDS Date:10/03/1994

FSC:6140

NIIN:01-211-9906 Status Code:A

MSDS Number: CHXBX === Responsible Party ===

Company Name: SAFT AMERICA INC, POWER SOURCES DIV

Address:711 INDUSTRIAL BLVD

Box:1886

City:VALDOSTA

State:GA ZIP:31603

Country:US

Info Phone Num:912-247-2331

Emergency Phone Num:912-247-2331

CAGE:09052

=== Contractor Identification ===

Company Name: SAFT AMERICA INC.

Address:711 INDUSTRIAL BLVD

Box:1886

City: VALDOSTA

State:GA ZIP:31602 Country:US

Phone:912-247-2331

CAGE:09052

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

Ingred Name: NICKEL OXIDE

CAS:1313-99-1

RTECS #:QR8400000 Fraction by Wt: 10%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3 AS NI ACGIH TLV:1 MG/M3 AS NI

Ingred Nam

e:POTASSIUM HYDROXIDE (CERCLA) (ELECTROLYTE SOLUTION)

CAS:1310-58-3

RTECS #:TT2100000 Fraction by Wt: 19%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:C 2 MG/M3

ACGIH TLV:C 2 MG/M3; 9596

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: CADMIUM OXIDE (SARA 302/313) (CERCLA)

CAS:1306-19-0

RTECS #:EV1925000 Fraction by Wt: 13%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.2 MG (CD)/M3 DUST ACGIH TLV:0.01 MG(CD)/M3; 9596

Ingred Name: NYLON 11

CAS:25587-80-8 Fraction by Wt: 15% Other REC Limits:NO NE RECOMMENDED

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

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

Health Hazards Acute and Chronic: EXPOSURE TO HAZARDOUS COMPONENTS WILL

HAPPEN ONLY IF BATTERY CASE IS BROKEN. IF CASE IS

BROKEN: ELECTROLYTE IS CORROSIVE TO BODY TISSUES, CAUSING SEVERE

BURNS. METALS MAY CAUSE IRRITATION. METAL FUMES

INHALED OR METALS

INGESTED ARE TOXIC.

Explanation of Carcinogenicity:NIOSH RECOMMENDS THAT NICKEL & CADMIUM BE TREATED AS OCCUPATIONAL CARCINOGENS.

Effects of Overexposure:SEVERE IRRITATION, BURNS TO BODY TISSUES CONTACTED. EYE:SEVERE IRRITATION, BURNS. SKIN:BURNS, CHRONIC ECZEMA, NICKEL ITCH. INALATION (FUMES):RESPIRATORY IRRITATION, COUGH, HEADACHE, VOMITING, CHEST PA IN, CHILLS. INGESTION:BURNS, NAUSEA, G/I DISORDERS.

Medical Cond Aggravated by Exposure:MFR GAVE NO I

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First Aid:IF IRRITATION PERSISTS OR IS SEVERE, GET MEDICAL ATTENTION. EYE:FLUSH W/WATER FOR 15 MIN. SKIN:WASH W/SOAP & WATER. REMOVE CONTAMINATED CLOTHING & LAUNDER BEFORE REUSE. INHALED:REMOVE FROM EXPOSURE. A ID OR RESTORE BREATHING AS NEEDED. INGESTED:DO NOT INDUCE VOMITING. GIVE 1-2 GLASSES OF MILK OR WATER TO DRINK. GET IMMEDIATE MEDICAL ATTENTION. NOTHING BY MOUTH IF UNCONSCIOUS.
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Extinguishing Media:CARBON DIOXIDE, SAND Fire Fighting Procedures:USE SELF-CONTAINED BREATHING APPARATUS TO AVOID BREATHING TOXIC FUMES. WEAR PROTECTIVE CLOTHING TO PREVENT CONTACT W/ ELECTROLYTE SOLUTION. Unusual Fire/Explosion Hazard:ELECTROLYTE IS CORROSIVE TO BODY TISSUES. REACTS W/ORGANIC COMPOUNDS & METALS. RELEASES EXPLOSIVE HYDROGEN GAS. RELEASES TOXIC CADMIUM FUMES IN FIRE.
======== Accide ntal Release Measures =============
Spill Release Procedures:ELECTROLYTE SPILL: FLUSH W/ WATER & NEUTRALIZE W/DILUTE ACID.  Neutralizing Agent:DILUTE ACID
=========== Handling and Storage =============
Handling and Storage Precautions:THESE CELLS & BATTERIES CONSTRUCTED FROM THEM MAY BE HIGHLY CHARGED& CAPEABLE OF HIGH ENERGY DISCHARGE. TAKE CARE TO HANDLE CELLS PROPERLY.  Other Precautions:AVOID SHORTING OR MISUSE THAT WILL RESULT IN RAPID UNCONTROLLE  D ELECTRICAL, CHEMICAL OR HEAT ENERGY RELEASE. DO NOT
SHORT CIRCUIT - MAY CAUSE BURNS. DO NOT BREAK OPEN CELL. DO NOT ALLOW EXPOSED AN FLA ME OR SPARK TO COME NEAR THE CELLS.
====== Exposure Controls/Personal Protection ========
Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR IF CELL IS BROKEN OPEN DURING FIRE TO MAINTAIN EXPOSURE LEVELS BELOW TWA FOR CADMIUM & NICKEL COMPONENTS.
Ventilation: USE LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION.

NFORMATION ON MSDS.

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NTAIN OSHA PEL. Protective Gloves: SYNTHETIC RUBBER FOR ELECTROLYTE EXPOS. Eye Protection: SPLASH GOGGLES IF CELL ACTIVATES Other Protective Equipment: RUBBER APRON OR EQUIPMENT IF EXPOSURE TO ELECTROLYTE SOLUTION IS LIKELY. Work Hygienic Practices: KEEP FOOD AND TOBACCO AWAY FROM WORK AREA. Supplemental Safety and Health NONE ======== Physical/Chemical Properties =============== HCC:C2 NRC/State Lic Num:NONE Spec Gravity: 1.250-1.30 Evaporation Rate & Reference: NOT DETERMINE Solubility in Water: SEE APPEARANCE ======== Stability and Reactivity Data =========== Stability Indicator/Materials to Avoid:YES ALUMINUM, ZINC, TIN, ACTIVE METALS. ACID, AROMATIC HYDROCARBONS, NITROCARBONS, HALOCARBONS. Stability Condition to Avoid:MFR GAVE NO INFORMATION ON MSDS.

Hazardous Decomposition Products: NICKEL OXIDE, CADMIUM, CADMIUM OXIDE, POTASSIUM HYDROXIDE.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

====== Disposal Consideration S ===========

Waste Disposal Methods: STORAGE BATTERY IS HAZARDOUS WASTE UNDER RCRA. IT MAY BE RETURNED TO SAFT FOR RECYCLING. BATTERY IS TCLP TOXIC. BATTERY & ELECTROLYTE SOLUTION IS CORROSIVE. IF NOT RECYCLED, MUST BE DISPOSED I/A/W FED ERAL, STATE & LOCAL REGULATIONS.

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