

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 Name

: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:NON

E RECOMMENDED

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

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

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

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 IN

FORMATION ON MSDS.

===== First Aid Measures =====

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.

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

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.

===== Acciden tal 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
UNCONTROLLED
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.
MAIN

TAIN 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 DETERMINED

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 Considerations

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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/AW FED ERAL, STATE & LOCAL REGULATIONS.

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