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Product ID:NICKEL CADMIUM SEALED CELL BATTERY MSDS Date:10/03/1994 FSC:6140 NIIN:01-136-1493 MSDS Number: CGLFH === Responsible Party === Company Name:SAFT AMERICA INC, POWER SOURCES DIV Address:711 INDUSTRIAL BLVD Box:1886 City:VALDOSTA State:GA ZIP:31603 Country:US In fo 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 

Ingred Name:CADMIUM (SARA 313) (CERCLA) TOTAL OF INGREDIENTS 1, 2 & 3 IS 17%. CAS:7440-43-9 RTECS #:EU9800000 Fraction by Wt: 17% Other REC Limits:NONE RECOMMENDED OSHA PEL:0.2 MG /M3 DUST; Z-2 ACGIH TLV:0.01 MG/M3 DUST;9495 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE CAS:21041-95-2 Fraction by Wt: SEE #1% Other REC Limits:NONE RECOMMENDED OSHA PEL:0.05 MG CD/M3 ACGIH TLV:0.05 MG CD/M3

Ingred Name:CADMIUM OXIDE (SARA 302/313) (CERCLA) CAS:1306-19-0 RTECS #:EV1925000 Fraction by Wt: SEE #1% Other REC Limits:NONE RECOMMENDED OSHA PEL:0.2 MG (CD)/M3 DUST ACGIH TLV:0.01 MG(CD)/M3; 9495

Ingred Name:NICKEL (SARA 313) (CERCLA) THE TOTAL OF INGREDIENTS 4, 5 & 6 IS 19%. CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 19% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9495

Ingred Name:NICKEL HYDROXIDE (SARA 313) (CERCLA) CAS:12054-48-7 RTECS #:QR7040000 Fraction by Wt: SEE #4% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG(NI)/M3 ACGIH TLV:0.1 MG(NI)/M3; 9495 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:NICKEL OXIDE CAS:1313-99-1 RTECS #:QR8400000 Fraction by Wt: SEE #4% Other REC Limits:NONE RECOMMENDED OSHA P EL:1 MG/M3 AS NI ACGIH TLV:1 MG/M3 AS NI

Ingred Name:POTASSIUM HYDROXIDE (CERCLA) CAS:1310-58-3 RTECS #:TT2100000 Fraction by Wt: 5% Other REC Limits:NONE RECOMMENDED OSHA PEL:C 2 MG/M3 ACGIH TLV:C 2 MG/M3; 9495 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:COBALT (SARA 313) CAS:7440-48-4 RTECS #:GF8750000 Fraction by Wt: 1% Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1 MG/M3 ACGIH TLV:0.02 MG/M3; A3; 9495

LD50 LC5 0 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 TH **AT 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 INFORMATION ON MSDS.

Fir

st 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.

Extinguishing Media:CAR
BON 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.

Spill Release Procedures:ELECTROLYTE SPILL: FLUSH W / WATER & NEUTRALIZE W/DILUTE ACID. Neutralizing Agent:DILUTE ACID

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. MAINTAIN OSHA PEL. Protective Gloves:SYNTHETIC RUBBER FOR ELECTROLYTE EXPOS.

Eye Protection:SPLAS

H 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

HCC:N1 NRC/State Lic Num:NONE Spec Gravity:1.170-1.250 Evaporation Rate & amp; Reference:NOT DETERMINED Solubility in Water:SEE APPEARANCE

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.

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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