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SAFT AMERICA INC PORTABLE BATTERY DIVISION -- NICKEL CADMIUM SEALED CELL BATTERY -- 6140-01-143-4884

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

Product ID:NICKEL CADMIUM SEALED CELL BATTERY

MSDS Date: 10/03/1994

FSC:6140

NIIN:01-143-4884

MSDS Number: CFYPK === Responsible Party ===

Company Name: SAFT AMERICA INC PORTABLE BATTERY DIVISION

Address:711 INDUSTRIAL BLVD

Box:1886

City:VALDOSTA

State:GA ZIP:31601

Country:US

Info Phone Num:912-247-2331

Emergency Phone Num:912-247-2331

CAGE:67237

=== Contractor Identification ===

Company Name: SAFT AMERICA INC PORTABLE BATTERY DIVISION

Address:711 INDUSTRIAL BLVD

Box:1886

City: VALDOSTA

State:GA ZIP:31601 Country:US

Phone:912-247-2331

CAGE:67237

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

Ingred Name: CADMIUM (SARA 313) (CERCLA), % TOTAL OF INGREDS #1, 2, 3.

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;9596

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; 9596

Ingred Name:NICKEL (SARA 313) (CERCLA

), % FOR TOTAL OF INGREDS 4,5,6.

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; 9596

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; 9596

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 RECOMM

ENDED

OSHA PEL: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: 8%

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: AS COBALT METAL (SARA 313), COBALT HYDROXIDE

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; 9596

====== Hazards Identifi

cation ==========

LD50 LC50 Mixture: NOT GIVEN

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

Health Hazards Acute and Chronic:EYE:FIRE/CELL RUPTURE OCCURS

ELECTROLYTE SOLN INSIDE BATT EXTREMELY CORR TO EYE TISSUES.MAY

RESULT IN PERM BLINDNESS.CONTACT W/NIO MAY CAUSE MINOR

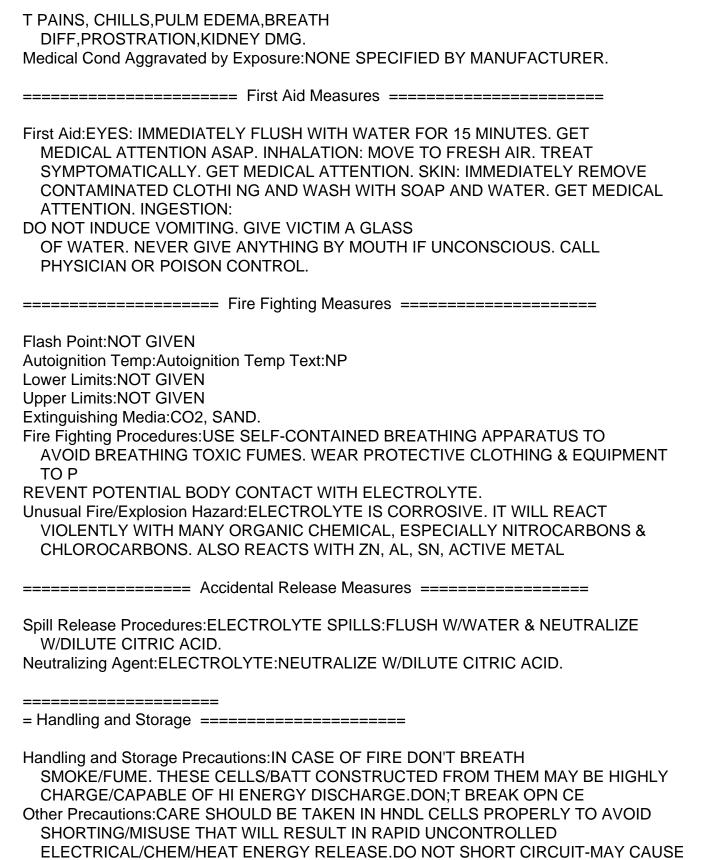
IRRIT.SKIN:CONTACT W/ELECTROLYTE SOLN MAY CAUSE SER B URNS.CONTACT

W/NI CMPDS MAY CAUSE SKIN SENS, RESULT IN CHRONIC ECZEMA/NI

TCH.INGEST:ELECTROLYTE SOLN CAUSES TISSUE(SUPP)

Explanation of Carcinogenicity: CONTAINS NICKEL & CADIUM COMPOUNDS. PER MSDS: NIOSH RECOMMENDS THAT NI & CD BE TREATED AS OCCUPATIONAL CARCINOGENS.

Effects of Overexposure:CORR TO EYE TISSUES,PERM BLINDNESS,MIONOR IRRIT.SERIOUS SKIN BURNS,SENS,CHRONIC ECZEMA,NI ITCH.DMAG TO THROAT AREA & GASTRO/RESP TRACT,NAU,INTESTINAL DISORDERS.MILD NASAL MUC MEMBRANES IRRIT TO DMG OF LUNG TISSUES PROPER.DRY THROAT,COUGH,HEADACHE,VOMIT,CHES



BURNS.DO NOT ALLOW FLAMES / SPARK TO COME NEAR CELLS.

====== Exposure Controls/Personal Protection ========
Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR IF CELL BROKEN OPN DURING FIRE TO MAINTAIN EXPO LEVELS BEL TWA FOR CADMIUM & NICKEL COMPOUNDS. Ventilation:NONE SPECIFIED BY MANUFACTURER.
Protective Gloves:WATER-INSOLUBLE,NON-PERM GLOVE(SYN RUBB)
Eye Protection:SPLASH GOGGLES, FACE SHIELDS.
Other Protective Equipment:DO NOT USE LEATHER OR WOOL GLOVES.RUBBER APRON OR EQUIVALENT IF EXPO TO ELECTROLYTE SOLN IS LIKELY.
Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.
Supplemental Safety and Health HEALTH HAZ:DMG TO THROAT AREA/GASTRO/RESP TRACT.NI CMPDS
INGEST:NAU/INTESTINAL DISORDER.INHAL:NO EXPO EXCEPT IN CASE OF FIRE/ABUSE.CD &/OR NI CMPD:VARY FRM MILD NASAL MUC MEMB IRRIT TO LUNG TISSUES PR OPER DMG.CDO MAY CAUSE DRY
THROAT,COUGH,HEAD,VOMIT,CHEST PAIN, CHILLS.CHRONIC:PULM
EDEMA,BREATH DIFFI,PROSTR ATION,KID DM
========= Physical/Chemical Properties ==========
HCC:N1 Boiling Pt:B.P. Text:NOT GIVEN
Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Decomp Temp:Decomp Text:NOT GIVEN
Vapor Pres:NOT GIVEN
Vapor Density:NOT GIVEN
Spec Gravity:1.17-1.25 ELECT
Viscosity:NP Evaporation Rate & DETERMINED
Solubility in Water:ELECT SOLUBLE.
Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.
Percent Volatiles by Volume:NP
=========== Stability and Reactivity Data == ==========
Stability Indicator/Materials to Avoid:YES AL,ZN,SN,OTHER ACTIVE METALS;ACID;CHLORINATED & AROMATIC HYDROCARBONS;NITROCARBONS;HALOCARBONS.
Stability Condition to Avoid:AVOID PHYSICAL DAMAGE THAT WOULD EXPOSE

Hazardous Decomposition Products:NICKEL OXIDE, CADMIUN, CADMIUN OXIDE,

Waste Disposal Methods:STORAGE BATT IS HAZ WASTE UNDER RCRA.IT MAY BE

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

ELECTROLYTE.

RETURNED TO SA

POTASSIUM HYDROXIDE.

FT FOR RECYCLING.BATT IS TCLP TOXIC.BATT/ELECTRO SOLN
ARE CORR.IF NOT RECYLCED MUST BE DISPOSED OF IAW ALL FED/STATE/LOC REGS.

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