Product ID:NICKEL-CADMIUM SEALED CELL BATTERY

MSDS Date:02/28/1991

FSC:6140

NIIN:01-176-5734

MSDS Number: CHHRS === 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:912-2

47-2331

Preparer's Name: WILLIAM G. MIDBER(?)

CAGE:67237

=== Contractor Identification ===

Company Name: SAFT AMERICA INC PORTABLE BATTERY DIVISION

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

Ingred Name:CADMIUM (SARA 313) (CERCLA) (PRESENT AS CADMIUM,CADMIUM HYDROXIDE,CADMIUM OXIDE)

CAS:7440-43-9

RTECS #:EU9800000 Fraction by Wt: 8-20% Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.2 MG/M3 DUST; Z-2
ACGIH TLV:0.01 MG/M3 DUST;9596
EPA Rot Oty:10 LBS

EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:NICKEL (SARA 313) (CERCLA) (PRESENT AS NICKEL,NICKEL HYDROXIDE,NICKEL OXIDE)

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 15-35%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9596

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

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:NO In

gestion:NO

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

Health Hazards Acute and Chronic:INHAL DUST/FUME FRM CD/CMPDS MAY IRRIT NOSE/THROAT.HI CONC INHAL(ESPECIALLY FRESHLY FORMED FUME)DELAYED RX OF COUGH,CHEST PAIN,SWEATING CHILLS,SHORTNESS OF BREATH,WEAK MAY DVLP.SEVERE CASES DEATH MAY RESULT FROM PULM EDEMA.INGEST OF CD DUST MAY CAUSE NAU,VOMIT,DIARR,ADB CRAMPS.NICKEL/CMPDS MAY CAUSE LOCAL DERM (SUPPLE)

Explanation of Carcinogenicity:PER MSDS:NICKEL & CADMIUM

& THEIR CMPDS

ARE LISTED AS CARCINOGENS OR POTENTIAL CARCINOGENS BY NTP/IARC/OSHA.

Effects of Overexposure:IRRIT OF NOSE/THROAT,SWEATING CHILLS,SHORTNESS OF BREATH,WEAKNESS,LOCAL DERMATITIS,NAUSEA,COUGHING,CHEST PAIN.

Medical Cond Aggravated by Exposure:RESPIRATORY SYSTEM DISORDERS, PROSTATE DISORDERS, LIVER AND KIDNEY DISORDERS.

First Aid:INHAL:REMOVE FROM EXPOSURE.SEE PHYSICIAN.INGEST:INDUCE VOMTING IF

CONSCIOUS.SEE PHYSICIAN.SKIN/EYES:FLUSH W/WATER FOR 15MINS.SEE PHYSICIAN IF SYMPTOMS DEVELOPE. Flash Point:NA Autoignition Temp: Autoignition Temp Text: NA Lower Limits:NA Upper Limits:NA Extinguishing Media: DRY CHEMICAL, CO2, WATER. Fire Fighting Procedures: USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING IF INVOLVED IN FIRE. ====== Accidental Release Measures ====== Spill Release Procedures: CONTAIN SPILL. COLLECT SPILLED MATL & PLACE IT IN PLASTIC-LINED CONTAINER.HEPA VACUUMING IS PREFERRED.FLUSH SPILL AREA W/WATER. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. ============ Handling and Storage =========================== Handling and Storage Precautions: WEAR NIOSH/MSHA APPROVED DUST MASKS OR RESPIRATORS; IMPERVIOUS GLOVES & SAFETY GLASSES OR GOGGLES. Other Precautions: KEEP CONTAINER CLOSED, AVOID CONTACT W/CLOTHING, AVOID GENERATING DUST. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: NIOSH/MSHA APPROVED FOR DUSTS. Ventilation:LOCAL EXHAUST/MECHANICAL(GENERAL):YES.OTHER:MAINTAIN OSHA PEL. Protective Gloves: IMPERVIOUS

Eve Protection: SAFETY GLASSES/GOGGLES

Other Protective Equipment: DO NOT WEAR CONTAMINATED CLOTHING

HOME.SHOWER & CHANGE OR WEAR COVERALLS.

Work Hygienic Practices: KEEP FOOD AND TOBACCO AWAY FROM WORK AREA.

Supplemental Safety and Health

HEALT

H:FRM SKIN CONTACT.INHAL MAY CAUSE UPPER RESP IRRIT.INGEST NI/CMPDS MAY CAUSE INTESTINAL DISORDERS.CHRONIC:LONG TERM EXPO MAY CAUSE LUNG INJURY(EMPHYSEMA),KID DISFUNCT(PROTEINURIA).BONE LESIONS C HARACT BY PAIN IN BACK/EXTREMITIES HAVEBEEN REPORTED.INHAL OVER PROL PERDS MAY POSE INCR RKS OF LUNG CANC,OTHER FORMS.

========= Physical/Chemical Properties ==========
HCC:Z5
Boiling Pt:B.P. Text:NA
Melt/Freeze Pt:M.P/F.P Text:N/AVAI
Decomp Temp:Decomp Text:NP
Vapor
Pres:NA
Vapor Density:NA
Spec Gravity: 1.6
pH:NP
Viscosity:NP
Evaporation Rate & Dr. Reference: NA
Solubility in Water:NP
Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.
Percent Volatiles by Volume:NP
Corrosion Rate:NP
========= Stability and Reactivity Data ===========
Otability and Reactivity Data
Stability Indicator/Materials to Avoid:YES
Stability Condition to Avoid:GENERAL STORAGE PROCEDURES FOR HAZARDOUS MATLS ARE ACCEPTABLE.
Hazardous Decomposition Products:METAL OXIDE FUMES MAY BE EVOLVED
@TEMPS ABOVE MELTING POINT.

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS. IF DISCARDED TREAT AS HAZARDOUS WASTE.

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

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