

SAFT AMERICA INC PORTABLE BATTERY DIVISION -- NICKEL-CADMIUM SEALED CELL BATTERY --
6140-01-176-5734

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

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:912-247-2331

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

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) (PRESENT AS CADMIUM,CADMIUM
HYDROXIDE,CADMIUM OXIDE)

CAS:7440-4

3-9

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 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 Ingestion: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 Measures =====

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.

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

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 I
N 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
Eye 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

HEALTH: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

Me

lt/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 & 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 =====

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:GENERAL STORAGE PROCEDURES FOR HAZARDOUS
MATLS ARE ACCEPTABLE.

Haza

rdous Decomposition Products:METAL OXIDE FUMES MAY BE EVOLVED
@TEMPS ABOVE MELTING POINT.

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

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

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