

SAFT AMERICA INC PORTABLE BATTERY DIVISION -- NICKEL CADMIUM SELAED CELL BATTERY --
6140-01-260-7394

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

Product ID:NICKEL CADMIUM SELAED CELL BATTERY

MSDS Date:02/28/1991

FSC:6140

NIIN:01-260-7394

MSDS Number: BWPVD

=== Responsible Party ===

Company Name:SAFT AMERICA INC PORTABLE BATTERY DIVISION

Address:711 INDUSTRIAL BLVD

Box:1886

City:VALDOSTA

State:GA

ZIP:316

01

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 (AS CD);(SARA III), PERCENTAGE INCLUDES INGRED 2
AND INGRED 3

CAS:7440-43-9

RTECS #:EU9800000

Fraction by Wt: 8-20%

O

ther REC Limits:NONE RECOMMENDED
OSHA PEL:0.2 MG/M3 DUST; Z-2
ACGIH TLV:0.01 MG/M3 DUST;9394
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE (SEE INGRED 1)
CAS:21041-95-2
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.05 MG CD/M3
ACGIH TLV:0.05 MG CD/M3

Ingred Name:CADMIUM OXIDE (SARA III) SEE INGRED 1
CAS:1306-19-0
RTECS #:EV1925000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.2 MG (CD)/M3 DUST
ACGIH TLV:0.01 MG(CD)/M3; 9394

Ingred Name:NICKEL (SARA III),PERCENTAGE INCLUD
ES IN 5 AND INGRED 6
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; 9394

Ingred Name:NICKEL HYDROXIDE (SARA III), SEE INGRED 4
CAS:12054-48-7
RTECS #:QR7040000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG(NI)/M3
ACGIH TLV:0.1 MG(NI)/M3; 9394
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:NICKEL OXIDE, SEE INGRED 4
CAS:1313-99-1
RTECS #:QR8400000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3 AS NI
ACGIH TL

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:UNDER NORMAL CONDITIONS,THERE IS NO HAZARD.IF INCINERATED,INHALATION OF FUMES MAY CAUSE RESPIRATORY IRRITATION AND LUNG DAMAGE.CHRONIC:MAY CAUSE KIDNEY AND LUNG INJURY.
Explanation of Carcinogenicity:NICKEL AND CADMIUM ARE LISTED UNDER IARC AND NTP. NO EXPOSURE EXPECTED UNDER NORMAL CONDITIONS OF USE.
Effects of Overexposure:INHAL:IF INCINERATED,CHEST PAIN,COUGHING,SWEATING CHILLS,SHORTNESS OF BREATH,WEAKNESS.INGEST:CADMIUM MAY CAUSE NAUSEA,VOMITING,DIARRHEA,ABDOMINAL CRAMPS.SKIN:NICKEL COMPOUNDS MAY CAUSE DERMATITIS.
Medical Cond Aggravated by Exposure:IF INCINERATED,RESPIRATORY,PROSTATE,LIVER AND KIDNEY AILMENTS MAY BE EXASCERBATED.

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

First Aid:SKIN
:REMOVE CONTAMINATED CLOTHING;WASH WITH WATER.EYES:FLUSH WITH WATER FOR 15 MINUTES.IF SYMPTOMS DEVELOP,GET MEDICAL ATTENTION.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEED ED.INGEST:GET PROMPT QUALIFIED MEDICAL ATTENTION.IF CONSCIOUS,INDUCE VOMITING.

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

Flash Point:NONE
Extinguishing Media:WATER FOG,DRY CHEMICAL,CARBON DIOXIDE.
Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPAR ATUS AND FULL PROTECTIVE EQUIPMENT.
Unusual Fire/Explosion Hazard:TOXIC METAL OXIDE FUMES MAY BE EVOLVED DURING FIRE.

=====
===== Accidental Release Measures =====

Spill Release Procedures:IF BATTERY RUPTURES, WEAR PROTECTIVE GLOVES AND SAFETY GLASSES. VACUUM WITH A HEPA FILTER(PREFERRED) OR SOAK UP WITH A NON-COMBUSTIBLE ABSORBANT,PLACE IN AN A PLASTIC CONTAINER FOR DISPOSAL.CLEAN SPIL L AREA.
Neutralizing Agent:NOT REPORTED.

=====
===== H

Handling and Storage =====

Handling and Storage Precautions:STORE IN COOL, DRY PLACE. PROTECT FROM PHYSICAL DAMAGE, HEAT, FLAMES.

Other Precautions:DO NOT SHORT CIRCUIT BATTERIES. THEY MAY CAUSE BURNS WHEN IN CONTACT WITH SKIN OR EYES. USE PROPER BATTERY CHARGER. OBSERVE CORRECT POLARITY.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE EITHER A SELF-CONTAINED BREATHING APPARATUS OR A NIOSH/MSHA APPROVED RESPIRATOR FOR CAUSTIC/METAL FUMES,DEPENDING ON THE AIRBORN CONCENTRATION.

Ventilation:LOCAL VENTILATION AT THE WORKSITE;MECHANICAL(GENERAL) VENTILATION TO MAINTAIN TLV/PEL.

Protective Gloves:IMPERVIOUS

Eye Protection:GOGGLES WHEN HANDLING RUPTURED BATTERIES

Other Protective Equipment:PROTECTIVE CLOTHING,AS NEEDED.PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS.SEPERATE WORK CLOTHES FROM STREET

CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK AREA.

Supplemental Safety and Health
NONE.

===== Physical/Chemical Properties =====

HCC:N1

Spec Gravity:1.6

Appearance and Odor:BATTERY,3 SEALED CELLS.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES.

Hazardous Decomposition Products:META

L OXIDE FUMES MAY BE EVOLVED AT
TEMPERATURES ABOVE MELTING POINT.

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

Waste Disposal Methods: CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER.
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL
REGULATIONS. DO NOT INCINERATE. THIS IS RCRA HAZARDOUS WASTE. HMIS
SUGGESTS: D006 (CADMIUM), D002 (CORROSIVE).

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.