

SAFT AMERICA INC,PORTABLE BATTERY DIVISION -- NICKEL-CADMIUM SEALED CELL BATTERY --
6140-01-340-6660

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

Product ID:NICKEL-CADMIUM SEALED CELL BATTERY

MSDS Date:02/28/1991

FSC:6140

NIIN:01-340-6660

MSDS Number: BRKVN

=== Responsible Party ===

Company Name:SAFT AMERICA INC,PORTABLE BATTERY DIVISION

Address:711 INDUSTRIAL BLVD

Box:1886

City:VALDOSTA

State:GA

ZIP:31602

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 III)

CAS:7440-43-9

RTECS #:EU9800000

Fraction by Wt: 8-20%

Other REC Limits:NONE SPECIFIED

OSHA PEL:SEE 1910.1027

ACGIH

TLV:0.01 MG/M3 DUST;9394

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM OXIDE (SARA III)

CAS:1306-19-0

RTECS #:EV1925000

Fraction by Wt: 35%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1 MG NI/M3 DUST

ACGIH TLV:1 MG NI/M3 DUST 9293

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

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

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

Health Hazards Acute and Chronic:PRODUCT IS A SEALED UNIT. HAZARDS ARE

BASED ON BROKEN AND LEAKING CELLS. INHALATION: DUST AND FUMES MAY CAUSE RESPIRATORY TRACT IRRITATION, CHEST PAIN, LUNG INJURY, KIDNEY DISFUNCTION, BONE LESIONS, LUNG CANCER, DEATH FROM PULMONARY EDEMA.INGESTION: NAUSEA, VOMITING, DIARRHEA, ABDOMINAL CRAMPS, INTESTINAL DISORDERS.

Explanation of Carcinogenicity:NICKEL AND CADMIUM AND THEIR COMPOUNDS ARE LISTED AS CARCINOGENS OR POTENTIAL CARCINOGENS BY NTP, IARC, AND OSHA.

Effects of Overexposure:SKIN: LOCAL DERMATITIS.

INHALATION: IRRITATION

OF NOSE AND THROAT, COUGHING, CHEST PAIN, SHORTNESS OF BREATH, WEAKNESS, SWEATING CHILLS, EMPHYSEMA, KIDNEY DISFUNCTION (PROTEINURIA), BONE LESIONS CHARACTERIZED BY PAIN IN THE BACK AND EXTREMITIES, CANCER, DEATH. INGESTION: NAUSEA, VOMITING, DIARRHEA, ABDOMINAL CRAMPS.

Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN AND RESPIRATORY DISORDERS, PROSTATE DISORDERS, LIVER AND KIDNEY DISORDERS.

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

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER. IF SYMPTOMS PERSIST GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. IF SYMPTOMS PERSIST GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING GIVE CPR. GET MEDICAL ATTENTION.INGESTION: IF CONSCIOUS, INDUCE VOMITING. GET MEDICAL ATTENTION.

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

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. DRY CHEMIC

AL, CARBON DIOXIDE, WATER.

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SELF-CONTAINED
BREATHING APPARATUS AND FULL PROTECTIVE GEAR IF INVOLVED IN A FIRE.

Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:CONTAIN SPILL. COLLECT SPILLED MATERIAL AND
PLACE IN A PLASTIC-LINED CONTAINER FOR DISPOSAL. HEPA VACUUMING OF
DUST IS PREFERRED. FLUSH SPILL AREA WITH WATER.

Neutralizing Agent:NONE

===== Handling and Storage =====

Handling and Storage Precautions:NOT NORMALLY A PROBLEM. HOWEVER FOR
HANDLING BROKEN OR LEAKING CELLS WEAR PROPER PROTECTIVE CLOTHING
AND AVOID CONTACT WITH AND BREATHING OF DUST.

Other Precautions:AVOID GENERATING DUST WHEN HANDLING BROKEN OR LEAKING
CELLS.

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

Respiratory Protection:NOT NORMALLY REQUIRED. USE NIOSH/MSHA APPROVED
RESPI

RATOR FOR DUST IF DUST FROM LEAKING CELLS IS BEING GENERATED.

Ventilation:NORMAL WORK AREA VENTILATION IS ADEQUATE FOR NORMAL
HANDLING OF PRODUCT.

Protective Gloves:IMPERVIOUS GLOVES WHEN HANDLING LEAKERS.

Eye Protection:SAFETY GLASSES/GOGGLES FOR LEAKERS.

Other Protective Equipment:EYE WASH STATION. SHOWER AND CHANGE OR WEAR
COVERALLS IF HANDLING LEAKERS.

Work Hygienic Practices:WASH AFTER HANDLING BROKEN CELLS AND BEFORE
EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHING B
EFORE
REUSE.

Supplemental Safety and Health

DO NOT WEAR CONTAMINATED CLOTHING HOME. KEEP FOOD AND TOBACCO AWAY FROM
WORK AREA. HEALTH AND OTHER SAFETY PRECAUTIONS ARE GENERALLY FOR
THE METAL DUSTS OF THE INGREDIENTS FROM BROKEN OR LEAKING CELLS .
IN NORMAL USE, DUSTS ARE NOT GENERATED.

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

HCC:N1

Spec Gravity:1.6

Solubility in Water:INSOLUBLE

Appearance and Odor:STORAGE BATTERY CONSISTING OF 4 CELLS; 1.30 IN WIDE

X 5.21 IN LONG X 3.57 IN HI

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

Stability Indicator/Materials to Avoid: YES

NONE SPECIFIED BY MANUFACTURER.

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

Hazardous Decomposition Products: METAL OXIDE FUMES MAY BE EVOLVED AT TEMPERATURES ABOVE MELTING POINT.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

===

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

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.