

SAFT AMERICA INC PORTABLE BATTERY DIVISION -- NICKEL-CADMIUM SEALED CELL BATTERY --  
6140-01-220-6337

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

Product ID:NICKEL-CADMIUM SEALED CELL BATTERY

MSDS Date:02/28/1991

FSC:6140

NIIN:01-220-6337

MSDS Number: CHQML

=== 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:AVTRON MANUFACTURING INC

Box:UNKNOW

CAGE:01014

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:INGREDIENTS 2-4 TOTAL OF 8-20% (AS CADMIUM METAL)

RTECS #:9999999ZZ

Othe

r REC Limits:NONE RECOMMENDED

Ingred Name:CADMIUM (SARA 313) (CERCLA)

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 Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE

CAS:21041-95-2

Fraction by Wt: 8-20%

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: 8-20%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.2 MG (CD)/M3 DUST

ACGIH TLV:0.01 MG(CD)/M3; 9596

Ingred Name:INGREDIENTS 6-8 TOTAL 15-35% (AS NICKEL METAL)

RTECS #:9999999ZZ

Other REC Limits:NONE RECOMMENDED

Ingred Name:NICKEL (SARA 313) (CERCLA)

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

Ingred Name:NICKEL HYDROXIDE (SARA 313) (CERCLA)

CAS:12054-48-7

RTECS #:QR7040000

Fraction by Wt: 15-35%

Other R

EC 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: 15-35%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3 AS NI  
ACGIH TLV:1 MG/M3 AS NI

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===== 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:ACUTE

: INHALATION OF DUST OR FUMES

FROM CADMIUM OR NICKEL MAY CAUSE IRRITATION OF NOSE AND THROAT.  
INGESTION OF CADMIUM OR NICKEL DUST MAY CAUSE GI TRACT IRRITATION.  
NICKEL AND CERTAIN NICKEL COMPOUND S MAY CAUSE DERMATITIS ON SKIN  
CONTACT.CHRONIC: PROLONGED OR REPEATED EXPOSURE MAY CAUSE LUNG  
CANCER OR BONE LESIONS.

Explanation of Carcinogenicity:CONTAINS CADMIUM AND NICKEL AND THEIR  
COMPOUNDS WHICH ARE LISTED BY NTP AND IARC AND REGULATED BY OSHA AS  
A CARCINOGEN.

Effects

of Overexposure:INHALED: COUGHING, SNEEZING, WHEEZING,  
SHORTNESS OF BREATH, CHILLS, WEAKNESS, COUGHING, CHEST PAINS. SKIN:  
REDNESS, ITCHING, DISCOMFORT. INGESTED: NAUSEA, VOMITING, DIARRHEA,  
ABDOMINAL CRAMPS.

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

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

First Aid:INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION.  
INGESTION: INDUCE V

OMITTING IF CONSCIOUS. GET MEDICAL ATTENTION.

SKIN OR EYES: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION IF SYMPTOMS DEVELOP.

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

Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, WATER

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING IF INVOLVED IN A FIRE.

Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

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

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:WEAR PROPER PROTECTIVE CLOTHING. STORE IN A COOL, DRY AREA.

Other Precautions:

KEEP CONTAINER CLOSED. AVOID CONTACT WITH CLOTHES. AVOID GENERATING DUST.

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

Respiratory Protection:NONE NORMALLY REQUIRED. IF EMERGENCY OCCURS; USE NIOSH/MSHA APPROVED RESPIRATOR WITH DUST CARTRIDGE. USE IN ACCORDANCE WITH 29 CFR 1910.134 AND THE RESPIRATOR MANUFACTURER'S RECOMMENDATIONS.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW PEL/TLV.

Protective Gloves:

PVC OR NEOPRENE IF SPILLED OR BROKEN

Eye Protection:SAFETY GLASSES

Other Protective Equipment:WEAR COVERALLS WHEN HANDLING. HMIS: EYE WASH STATION & SAFETY SHOWER AVAILABLE.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

===== 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:1.6  
Evaporation Rate & Reference:NOT GIVEN  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:BATTERY ASSEMBLY

===== 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.

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

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

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