

SAFT AMERICA INC PORTABLE BATTERY DIVISION -- 407671-000 NICKEL-CADMIUM SEALED CELL BATTERY -- 6160-01-328-4730

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

Product ID:407671-000 NICKEL-CADMIUM SEALED CELL BATTERY

MSDS Date:02/28/1991

FSC:6160

NIIN:01-328-4730

MSDS Number: BSFMH

=== Responsible Party ===

Company Name:SAFT AMERICA INC PORTABLE BATTERY DIVISION

Address:711 INDUSTRIAL BLVD

Box:1886

City:VALDO

STA

State:GA

ZIP:31601

Country:US

Info Phone Num:912-247-2331

Emergency Phone Num:912-247-2331

Preparer's Name:UNREADABLE

CAGE:67237

=== Contractor Identification ===

Company Name:AVEX ELECTRONICS CORP

Address:1683 WINCHESTER ROAD

Box:1026

City:BENSALEM

State:PA

ZIP:19020-4510

Country:US

Phone:215-638-1515

CAGE:58414

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

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Composition/Information on Ingredients =====

Ingred Name:CADMIUM (AS CD);(SARA III)

CAS:7440-43-9

RTECS #:EU9800000

Fraction by Wt: 8-20%

Other REC Limits:NONE RECOMMENDED

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 HYDROXIDE

Fraction by Wt: 8-20%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1 MG/M3 (CD FUME)

ACGIH TLV:0.05 MG/M3 (CD FUME)

Ingred Name:CADMIUM OXIDE (SARA III)

CAS:1306-19-0

RTECS #:EV1925000

Fract

ion by Wt: 8-20%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:SEE 1910.1027

ACGIH TLV:0.05 MG(CD)/M3; 9293

Ingred Name:NICKEL (SARA III)

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; 9293

Ingred Name:NICKEL HYDROXIDE (SARA III)

CAS:12054-48-7

RTECS #:QR7040000

Fraction by Wt: 15-35%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG NI/M3

ACGIH TLV:0.1 MG NI/M3; 9293

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:N

NICKEL OXIDE
CAS:1313-99-1
RTECS #:QR8400000
Fraction by Wt: 15-35%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1.0 MG/M3

===== 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 I
RRITATION.
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, DISCOMFO
RT. INGESTED: NAUSEA, VOMITING, DIARRHEA,
ABDOMINAL CRAMPS.
Medical Cond Aggravated by Exposure:RESPIRATORY SYSTEM DISORDERS,
PROSTATE DISORDERS, LIVER AND KIDNEY DISORDERS.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION.
INGESTION: INDUCE VOMITING IF CONSCIOUS. GET MEDICAL ATTENTION.
SKIN OR EYES: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL
ATTENTION IF SYPMTOMS DEVELOP.

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

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

===== 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 ARE

A WITH WATER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage
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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.

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Exposure Controls/Personal Protection
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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, DRINKIN

G, OR SMOKING. LAUNDRER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

BATTERY CASE ITEM NAME WILL CHANGE AS OF 1994060 TO BATTERY ASSEMBLY. END ITEM IDENTIFICATION: AN/URQ-23.

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Physical/Chemical Properties
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HCC:N1

Spec Gravity:1-6 (WATER=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:BATTERY ASSEMBLY, CASE DESIGN SEALED, 10 CELLS, 2.7 BY 6.6 BY 3.8 INCHES

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Stability and Reactivity Data
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Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

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

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Disposal Considerations
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Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS. FOLLOWING EPA WASTE NUMBERS MAY APPLY: D002, D006.

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y the compiling agencies):

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