

SAFT AMERICA INC POWER SOURCES DIV -- NICAD STORAGE BATTERY CELL (P/N: M81757/1-2 --
6140-01-099-0250

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

Product ID:NICAD STORAGE BATTERY CELL (P/N: M81757/1-2

MSDS Date:03/05/1991

FSC:6140

NIIN:01-099-0250

MSDS Number: BNWRW

=== Responsible Party ===

Company Name:SAFT AMERICA INC POWER SOURCES DIV

Address:711 INDUSTRIAL BLVD

Box:1886

City:VALDOSTA

State:GA

ZIP:316

03

Country:US

Info Phone Num:912-247-2331

Emergency Phone Num:912-247-2331

CAGE:09052

=== Contractor Identification ===

Company Name:SAFT AMERICA INC.

Address:711 INDUSTRIAL BLVD

Box:1886

City:VALDOSTA

State:GA

ZIP:31602

Country:US

Phone:912-247-2331

CAGE:09052

===== Composition/Information on Ingredients =====

Ingred Name:CADMIUM (SARA III)

CAS:7440-43-9

RTECS #:EU9800000

Fraction by Wt: 7-13%

Other REC Limits:NONE SPECIFIED

OSHA PEL:SEE 1910.1027

ACGIH TLV:0.01 MG/M3 DUST;9

394

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE

Fraction by Wt: 7-13%

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.1 MG/M3 (CD FUME)

ACGIH TLV:0.05 MG/M3 (CD FUME)

Ingred Name:NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: 23-30%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name:NICKEL HYDROXIDE (SARA III)

CAS:12054-48-7

RTECS #:QR7040000

Fraction by Wt: 23-30%

Other REC Limits:1 MG/M3 AS NI

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:POTASSIUM HYDROXIDE (SARA III)

CAS:1310-58-3

RTECS #:TT2100000

Fraction by Wt: 4.0%

Other REC Limits:NONE SPECIFIED

OSHA PEL:C, 2 MG/M3

ACGIH TLV:C 2 MG/M3; 9192

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:COBALT HYDROXIDE

CAS:21041-93-0

Fraction by Wt: 0.5%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.05 MG/M3 AS COBALT

ACGIH TLV:0.05 MG/M3 AS CO

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

=====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:UNDER NORMAL USE THERE IS NO DANGER OF
OVEREXPOSURE. ACUTE:IRRITATION OF EYES, NOSE AND THROAT. HARMFUL IF
ANY CHEMICALS ARE INGESTED. POTASSIUM HYDROXIDE IS CORROSIVE.
CHRONIC:CADMIUM COMPOUNDS CAN CAUSE LUNG AND KIDNEY INJURIES.
Explanation of Carcinogenicity:NICKEL AND CADMIUM COMPOUNDS ARE LISTED
AS ANTICIPATED CARCINOGENS BY NTP & EPA.

Effects of Overexposure:ALKALI VAPORS MAY CAUSE IRRITATION OF EYES,
NOSE AND THROAT. CONTACT WITH EYES AND SKIN CAUSES BURNS & TISSUE
DAMAGE. OVEREXPOSURE TO CADMIUM & ITS COMPOUNDS MAY RESULT IN
REDUCED FUNCTION OF KIDNEYS AND LUNGS.
Medical Cond Aggravated by Exposure:PULMONARY, LUNGS, KIDNEYS AND SKIN
DISEASES.

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

First Aid:FLUSH CONTACTED AREA WITH LARGE AMOUNTS OF WATER FOR AT LEAST
15 MINUTES. REMOVE CONTAMINATED CLOTHING AND GET MEDICAL ATTENTION.
IF SWALLOWED, GIVE LARGE VOLUMES OF WATER. DO NOT INDUCE VOMITING,
OBTAIN MEDICAL ATTENTION.

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

Flash Point:NONE
Extinguishing Media:NONCOMBUSTIBLE. FOR SURROUNDING FIRE USE WATER FOG,
CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA.
COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.
Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE
HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

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

Spill Release Procedures:USE VINYL GLOVES. ABSORB SPILL WITH INERT
ABSORBENT AND WASH RESIDUE WITH FIVE TO SIX VOLUMES OF WATER.
Neutralizing Agent:VINEGAR OR 5% ACETIC ACID.

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

Handling

and Storage Precautions:STORAGE-STORE AWAY FROM REACTIVE MATERIALS, OPEN FLAMES AND SOURCES OF IGNITION.

Other Precautions:INDUSTRIAL TYPE NEUTRAL ABSORBENT SHOULD BE KEPT IN SAME GENERAL AREA FOR EMERGENCY USE. WASH HANDS THOROUGHLY AFTER HANDLING TERMINALS IN ORDER TO AVOID INGESTION OF CADMIUM, NICKEL AND THEIR COMPOUNDS. DO NOT OVERCHARGE BATTERIES.

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

Respiratory Protection:NONE UNDER NORMAL CONDITIONS. RESPIRATOR

REQUIRED WHEN PEL IS EXCEEDED OR EMPLOYEE WITNESSES RESPIRATORY IRRITATION.

Ventilation:WHEN PEL IS EXCEEDED LOCAL EXHAUST IS PREFERRED. USE ADEQUATE VENTILATION TO MAINTAIN EXPOSURE BELOW PEL.

Protective Gloves:ALKALI RESISTANT

Eye Protection:CHEMICAL SAFETY GOGGLES/FACE SHIELD

Other Protective Equipment:ALKALI-RESISTANT APRONS, BOOTS AND PROTECTIVE CLOTHING.

Work Hygienic Practices:GOOD PERSONAL HYGIENE AND WORK PRACTICES ARE MANDATORY. WASH HANDS AFTER HANDLING TERMINALS.

Supplemental Safety and Health

AVOID PROLONGED OVERCHARGE IN CONFINED AREAS.

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

HCC:B1

pH:ALKALI

Appearance and Odor:BATTERY,WET,FILLED WITH ALKALI,NYLON CASING

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

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS AND ACIDS.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Hazardous Decomposition Products:ALKALI FUMES AND CADMIUM & NICKEL OXIDE FUMES.

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

Waste Disposal Methods:PLACE IN ALKALI-RESISTANT CONTAINERS. DISPOSAL MUST BE IN ACCORDANCE WITH APPLICABLE GOVERNMENT REGULATIONS. CELLS AND BATTERIES MAY BE RETURNED AT SENDERS EXPENSE TO MANUFACTURER.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The Uni

ted 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.