

SAFT AMERICA INC -- NICKEL CADMIUM BATTERY -- 6140-01-151-8255

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

Product ID:NICKEL CADMIUM BATTERY

MSDS Date:11/20/1986

FSC:6140

NIIN:01-151-8255

MSDS Number: CGDTK

=== Responsible Party ===

Company Name:SAFT AMERICA INC

Address:711 INDUSTRIAL BLVD

City:VALDOSTA

State:GA

ZIP:31601

Country:US

Info Phone Num:912-247-2331

Emergency Phone Num:912-247-2331

Preparer's Na

me:BETH SNYDER

CAGE:DO617

=== Contractor Identification ===

Company Name:MATHEWS ASSOCIATES INC

Address:645 HICKMAN CIRCLE

Box:City:SANFORD

State:FL

ZIP:32771

Country:US

Phone:407-323-3390

CAGE:4U927

Company Name:SAFT AMERICA INC

Address:711 INDUSTRIAL BLVD

Box:450

City:VALDOSTA

State:GA

ZIP:31603

Phone:912-247-2331

CAGE:DO617

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

Ingred Name:CADMIUM (SARA 313) (CERCLA) AND INGREDIENT 2

CAS:7440-43-9

RTECS #:EU9800000

Fraction by

Wt: 13-16%
OSHA PEL:0.2 MG/M3 DUST
ACGIH TLV:0.01 MG/M3 DUST
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE
CAS:21041-95-2
RTECS #:EV1260000
Fraction by Wt: 13-16%
OSHA PEL:0.05 MG CD/M3
ACGIH TLV:0.05 MG CD/M3

Ingred Name:NICKEL (SARA 313) (CERCLA) AND INGREDIENT 4
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 20-30%
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3

Ingred Name:NICKEL HYDROXIDE
Fraction by Wt: 20-30%
OSHA PEL:0.05 MG/M3
ACGIH TLV:0.05 MG/M3

Ingred Name:POTASSIUM HY
DROXIDE (CERCLA) OR INGREDIENT 6
CAS:1310-58-3
RTECS #:TT2100000
Fraction by Wt: 2-4%
OSHA PEL:C 2 MG/M3
ACGIH TLV:C 2 MG/M3
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:SODIUM HYDROXIDE (CERCLA)
CAS:1310-73-2
RTECS #:WB4900000
Fraction by Wt: 2-4%
OSHA PEL:2 MG/M3
ACGIH TLV:C 2 MG/M3
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:COBALT HYDROXIDE
CAS:1307-86-4
RTECS #:GG0904000
Fraction by Wt: 0.5-1%
OSHA PEL:0.05 MG/M3(COBALT)
ACGIH TLV:0.1 MG/M3

Ingred Name:SUP DAT: GROUP 2

B. NTP 7TH ANNUAL RPT ON CARCINS, 1994:

ANTIC TO BE CARCIN. ANIMAL: LUNG. NICKEL HYDROXIDE: NTP (ING 9)
RTECS #:9999999ZZ

Ingred Name:ING 8: 7TH ANNUAL REPORT ON CARCINOGENS, 1994: ANTICIPATED
TO BE CARCINOGEN. ANIMAL: LUNG.
RTECS #:9999999ZZ

Ingred Name:EYE PROTECTION: AND FULL LENGTH FACESHIELD .
RTECS #:9999999ZZ

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===== Hazards Identification =====
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestio
n:YES

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

Health Hazards Acute and Chronic:ACUTE: POTASSIUM HYDROXIDE OR SODIUM
HYDROXIDE: BURNS TO TISSUE CONTACTED; NICKEL: POSSIBLE CONTACT
DERMATITIS; CADMIUM: POSSIBLE LUNG OR KIDNEY DAMAGE; NICKEL:
POSSIBLE LUNG DAMAGE.

Explanation of Carcinogenicity:CADMIUM: IARC MONO, SUPP, VOL 7, PG 139,
1987: GROUP 2A. NTP 7TH ANNUAL RPT ON CARCINS, 1994: ANTIC TO BE
(SUP DAT)

Effects of Overexposure:SEE HEALTH HAZARDS.

Medical C

ond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures =====
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First Aid:WASH THOROUGHLY WITH LARGE VOLUME OF WATER IF ELECTROLYTE IS
SPILLED. INHALATION: REMOVE TO FRESH AIR; CONTACT MD. EYES: FLUSH
WITH WATER FOR AT LEAST 15 MINUTES; CONTACT MD. SKIN: WASH WITH
LARGE VOL UME OF WATER; MILD ACID MAY BE USED TO NEUTRALIZE.
INGESTION: CONTACT MD IMMEDIATELY.

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===== Fire Fighting Measures =====
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Extinguishing Media:SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR NIOSH APPROVED SCBA & FULL PROTECTIVE
EQUIPMENT .

Unusual Fire/Explosion Hazard:TOXIC CADMIUM OXIDE FUMES MAY BE RELEASED
DURING BURNING.

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===== Accidental Release Measures =====
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Spill Release Procedures:FLUSH ELECTROLYTE SPILLS WITH WATER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

ng and Storage Precautions:DO NOT BREAK OPEN BATTERY CELL. DO NOT INCINERATE OR MUTILATE. DO NOT SHORT-CIRCUIT - MAY CAUSE BURNS.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:NIOSH APPROVED SCBA (IF BURNED).

Ventilation:NONE SPECIFIED BY MANUFACTURER.

Protective Gloves:NEOPRENE OR PVC IF CELL BROKEN.

Eye Protection:ANSI APPRVD CHEM WORKERS GOGG (ING 10)

Other Protective Equipment:EMERGENCY EYEWA

SH AND DELUGE SHOWER MEETING

ANSI DESIGN CRITERIA .

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

APPEAR/ODOR: ELECTRODE, NICKEL ELECTRODE & KOH/NAOH ELECTROLYTE. EXPLAN OF CARCIN: CARCIN. OSHA REGULATED: CFR 29 1910.1027. HUMAN: LUNG.

CADMIUM HYDROXIDE: IARC MONO, VOL 58, PG 119, 1993: GROUP 1. C

OBALT HYDROXIDE: IARC MONO, VOL 52, PG 363, 1991: GROUP 2B. ANIMAL:

GI. NICKEL: IARC MONO, VOL 49, PG 257, 1990: (ING 8)

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

HCC:B1

Appearance and Odor:EACH BATTERY CELL IS A SEALED CYLINDRICAL CONTR ENCLOSING A CADMIUM (SUP DAT)

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

Stability Indicator/Materials to Avoid:YES

NOT APPLICABLE.

Stability Condition to Avoid:NOT APPLICABLE.

Hazardous Decomposition Products:TOXIC FUMES MAY BE RELEASED IF INCINERATED.

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

Waste Disposal

Methods:DISPOSE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

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