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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 =========== Hazards Identification ========================== 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. 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. ======== Fire Fighting Measures ======= ========= 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. ======== Accidental Release Measures ============ Spill Release Procedures:FLUSH ELECTROLYTE SPILLS WITH WATER. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. ============ Handling and Storage =========================== 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. ===== 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) _____ Physical/Chemical Properties ========== HCC:B1 Appearance and Odor: EACH BATTERY CELL IS A SEALED CYLINDRICAL CONTR **ENCLOSING A CADMIUM (SUP DAT)** ======== Stability and Reactivity Data =========== NOT APPLICABLE. Stability Condition to Avoid: NOT APPLICABLE. Hazardous Decomposition Products: TOXIC FUMES MAY BE RELEASED IF INCINERATED.

Stability Indicator/Materials to Avoid:YES

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

Waste Disposal

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

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