

SAFT AMERICA INC POWER SOURCES DIV -- NICKEL CADMIUM BATTERY CELL -- 6140-01-069-7376
===== Product Identification =====

Product ID:NICKEL CADMIUM BATTERY CELL
MSDS Date:03/05/1991
FSC:6140
NIIN:01-069-7376
MSDS Number: BTHJP
=== Responsible Party ===
Company Name:SAFT AMERICA INC POWER SOURCES DIV
Address:711 INDUSTRIAL BLVD
Box:1886
City:VALDOSTA
State:GA
ZIP:31603
Country:US
Info Phone Num:912-247-2331
Emergency Phone Num:912-247-2331800-424-9300(CHEMTREC)
Preparer's Name:BETH LOS
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 (AS CD);(SARA III)
CAS:7440-43-9
RTECS #:EU9800000
Fraction by Wt: SEE #3%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.2 MG/M3 DUST;

Z-2

ACGIH TLV:0.01 MG/M3 DUST;9394

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE

CAS:21041-95-2

Fraction by Wt: SEE #3%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.05 MG/M DUST&FUME

ACGIH TLV:0.05 MG(CD)/M3 9293

Ingred Name:TOTAL OF INGREDIENTS # 1 & 2.

RTECS #:9999999ZZ

Fraction by Wt: 7-13%

Other REC Limits:0.05C FUME

OSHA PEL:0.2MG/M3

ACGIH TLV:0.05MG/M3

Ingred Name:NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: SEE #6%

Other REC Limits:NONE RECO

MMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9394

Ingred Name:NICKEL HYDROXIDE (SARA III)

CAS:12054-48-7

RTECS #:QR7040000

Fraction by Wt: SEE #6%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG(NI)/M3

ACGIH TLV:0.1 MG(NI)/M3; 9394

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:TOTAL OF INGREDIENTS #4 & 5.

RTECS #:9999999ZZ

Fraction by Wt: 23-30%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1.0MG/M3

ACGIH TLV:1.0MG/M3

Ingred Name:COBALT HYDROXIDE

CAS:21041-93-0

Fraction by Wt: 0.5%

Other REC

Limits:NONE RECOMMENDED

Ingred Name:POTASSIUM HYDROXIDE (SARA III)

CAS:1310-58-3

RTECS #:TT2100000

Fraction by Wt: 4%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:C, 2 MG/M3

ACGIH TLV:C 2 MG/M3; 9394

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:NOT APPLICABLE.

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:UNDER NORMAL

CONDITIONS OF USE, NO

EXPOSURE TO HAZARDOUS COMPONENTS EXISTS. IF INCINERATED, INHALATION OF FUME MAY CAUSE RESPIRATORY SYSTEM IRRITATION TO PULMONARY EDEMA. CHRONIC EXPOSURE MAY CAUSE KIDNEY DYSFUNCTION AND LUNG INJURY. IF CASE IS BROKEN OPEN ELECTROLYTE IS CORROSIVE ON CONTACT.

Explanation of Carcinogenicity:PER MFG'S MSDS NOT ESTABLISHED FOR BATTERIES; HOWEVER NI & CD ARE LISTED AS POTENTIAL CARCINOGENS BY NTP, IARC, OSHA.

Effects of Overexposure:IF INCINERATED CHEST PAIN, COUGHING, SWEATING

CHILLS, SHORTNESS OF BREATH AND WEAKNESS.

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

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

First Aid:IF CONTACT W/POTASSIUM OR SODIUM HYDROXIDE ELECTROLYTE, FLUSH W/WATER FOR 15MINS AND CONTACT PHYSICIAN. IF INHALED REMOVE FROM EXPOSURE AND CONTACT PHYSICIAN.

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

Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:USE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING IF INVOLVED IN FIRE.

Unusual Fire/Explosion Hazard:TOXIC METAL OXIDE FUMES MAY BE EVOLVED DURING BURNING.

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

Spill Release Procedures:UNDER NORMAL CONDITIONS OF USE, HAZARDOUS COMPONENTS WILL NOT BE RELEASED. IF POTASSIUM (OR SOD

IUM) HYDROXIDE

ELECTROLYTE IS SPILLED, NEUTRALIZE WITH MILD ACID THEN FLUSH WITH WATER.

Neutralizing Agent:IF POTASSIUM (OR SODIUM) HYDROXIDE ELECTROLYTE IS SPILLED NEUTRALIZE W/MILD ACID

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

Handling and Storage Precautions:DO NOT BREAK OPEN BATTERY CASE. DO NOT MUTILATE OR SHORT CIRCUIT CASE. DO NOT INCINERATE.

Other Precautions:AVOID CONTACT WITH INNER COMPONENTS.

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

Respiratory Protection:USE NIOSH/MSHA SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING TO PROTECT AGAINST FUMES IF BATTERY INVOLVED IN A FIRE.

Ventilation:NOT APPLICABLE.

Protective Gloves:IMPERVIOUS GLOVES IF CASE PUNCTURED.

Eye Protection:SAFETY GOGGLES IF CASE PUNCTURED.

Other Protective Equipment:UNDER NORMAL CONDITIONS NO PROTECTIVE EQUIPMENT REQUIRED.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health PER

CTDF SAFT PN:019624-000 TYP VP130KHB WHICH IS NOT ON MSDS. MSDS SUBMITTED BY DDMT, MEMPHIS FOR DLA430-93-C-5277.

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

HCC:B1

Appearance and Odor:PRISMATIC NYLON CASE WHICH COMPLETELY SEALS ABOVE NOTED COMPONENTS WITHIN.

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

Stability Indicator/Materials to Avoid:YES

PER MMFG'S MSDS GENERAL STORAGE PROCEDURES FOR HAZARDOUS MATERIALS ARE ACCEPTABLE.

Stabil

ity Condition to Avoid:NONE SPECIFIED BY MANUFACTURER; HOWEVER
AVOID HIGH TEMPERATURE AND RUPTURING OF BATTERY.

Hazardous Decomposition Products:METAL OXIDE FUMES.

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

Waste Disposal Methods:IF DISCRDED TREAT AS RCRA HAZARDOUS WASTER.
DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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