

SAFT AMERICA INC PRIMARY BATTERY DIVISION -- NICKEL CADMIUM SEALED CELL --  
6140-01-108-4142

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

Product ID:NICKEL CADMIUM SEALED CELL

MSDS Date:03/05/1991

FSC:6140

NIIN:01-108-4142

Status Code:A

MSDS Number: CJCVM

=== Responsible Party ===

Company Name:SAFT AMERICA INC PRIMARY BATTERY DIVISION

Address:711-A INDUSTRIAL BLVD

Box:1886

City:VALDOSTA

State:GA

ZIP:31603

Cou

ntry:US

Info Phone Num:912-247-2331

Emergency Phone Num:912-247-2331

Resp. Party Other MSDS Num.:0341

Preparer's Name:BETH LAS

CAGE:01306

=== Contractor Identification ===

Company Name:IFR SYSTEM INC

Address:10200 W YORK ST

City:WICHITA

State:KS

ZIP:67215-8935

Country:US

Phone:316-522-4981

CAGE:51190

Company Name:SAFT AMERICA INC PRIMARY BATTERY DIVISION

Address:711 INDUSTRIAL BLVD

Box:1886

City:VALDOSTA

State:GA

ZIP:31601-6512

Country:US

Phone:912-247-2331

CAGE:01306

===== Compositio

n/Information on Ingredients =====

Ingred Name:CADMIUM AND CADMIUM HYDROXIDE

Fraction by Wt: 12-15%

Other REC Limits:0.05 C FUME

OSHA PEL:0.2 MG/M3

ACGIH TLV:0.05 MG/M3

Ingred Name:NICKEL AND NICKEL HYDROXIDE

Fraction by Wt: 20-25%

Other REC Limits:NONE

OSHA PEL:1.0 MG/M3

ACGIH TLV:1.0 MG/M3

Ingred Name:POTASSIUM HYDROXIDE OR SODIUM HYDROXIDE

Fraction by Wt: 1-2%

Other REC Limits:NONE

OSHA PEL:2.0 MG/M3

ACGIH TLV:2.0 MG/M3

Ingred Name:COBALT HYDROXIDE (UNKNOWN OXIDATION STATE OF COBALT)

Fraction by Wt: 0.5-1%

Other REC Limits:NONE

OSHA PEL:0.5 MG/M3

ACGIH TLV:0.05 MG/M3

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

LD50 LC50 Mixture:N/PO

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

Explanation of Carcinogenicity:NICKEL AND CADMIUM ARE LISTED AS POTENTIAL CARCINOGENS BY NTP, IARC, AND OSHA. MANUFACTURER STATES THAT THE CARCINOGENICITY FOR BATTERIES IS NOT ESTABLISHED.

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.

===== Fir

First Aid Measures =====

First Aid:SKIN: IF CONTACT WITH THE ELECTROLYTE OCCURS, FLUSH WITH WATER FOR 15 MIN. AND CONTACT PHYSICIAN. INHALATION: REMOVE FROM EXPOSURE AND CONTACT PHYSICIAN.

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

Extinguishing Media:SUITABLE FOR SURROUNDING MATERIAL.

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

Neutralizing Agent:MILD ACID.

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

Handling and Storage Precautions:DO NOT BREAK OPEN BATTERY CELL, DO NOT

MULTILATE OR SHORT CIRCUIT CELL, DO NOT INCINERATE

Other Precautions:IF ELECTROLYTE HAS LEAKED FROM CELL, IT IS CORROSIVE ON CONTACT; IMPERVIOUS GLOVES AND SAFETY GLASSES SHOULD BE WORN IN THE UNLIKELY EVENT OF CONTACT.

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

Respiratory Protection:WEAR NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST FUMES.

Ventilation:NOT REQUIRED UNDER NORMAL USAGE.

Protective Gloves:

IF ELECTROLYTE EXPOSED, USE IMPERVIOUS GLOVES.

Eye Protection:IF ELECTROLYTE EXPOSED, WEAR SAFETY GLASSES.

Other Protective Equipment:IF INVOLVED IN FIRE, FULL PROTECTIVE CLOTHING.

Work Hygienic Practices:AVOID CONTACT WITH INNER COMPONENTS.

Supplemental Safety and Health

NONE

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

HCC:Z5

Appearance and Odor:EACH BATTERY CELL IS A CYL CONTAINER WITH THE NOTED COMPONENTS SEALED WITHIN

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

vity Data =====

Stability Indicator/Materials to Avoid: YES

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

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

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

===== Other Information =====

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