

SAFT AMERICA INC PORTABLE BATTERY DIVISION -- NICKEL CADMIUM SEALED CELL
BATTERY,MIS-19646 -- 6140-01-065-7880

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

Product ID:NICKEL CADMIUM SEALED CELL BATTERY,MIS-19646

MSDS Date:10/01/1994

FSC:6140

NIIN:01-065-7880

MSDS Number: BXXYK

=== Responsible Party ===

Company Name:SAFT AMERICA INC PORTABLE BATTERY DIVISION

Address:711 INDUSTRIAL BLVD

City:VALDOSTA

State:G

A

ZIP:31601

Country:US

Info Phone Num:912-247-2331

Emergency Phone Num:912-247-2331/800-424-9300(CHEMTREC)

CAGE:67237

=== Contractor Identification ===

Company Name:CAL-POWER CORP

Address:363 VAN NESS WAY NO 401

Box:City:TORRANCE

State:CA

ZIP:90501

Country:US

Phone:213-533-1928

CAGE:94660

Company Name:SAFT AMERICA INC PORTABLE BATTERY DIVISION

Address:711 INDUSTRIAL BLVD

Box:1886

City:VALDOSTA

State:GA

ZIP:31601

Country:US

Phone:912-247-2331

CAGE:67237

===== Composition/Information on

Ingredients =====

Ingred Name:CADMIUM (SARA 313) (CERCLA); TOTAL PERCENTAGE OF
INGREDIENTS 1, 2 AND 3 = 17

CAS:7440-43-9

RTECS #:EU9800000

Fraction by Wt: SEE ING

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.2 MG/M3 DUST; Z-2

ACGIH TLV:0.01 MG/M3 DUST;9495

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE

CAS:21041-95-2

Fraction by Wt: SEE # 1%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.05 MG CD/M3

ACGIH TLV:0.05 MG CD/M3

Ingred Name:CADMIUM OXIDE (SARA 302/31
3) (CERCLA)

CAS:1306-19-0

RTECS #:EV1925000

Fraction by Wt: SEE # 1%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.2 MG (CD)/M3 DUST

ACGIH TLV:0.01 MG(CD)/M3; 9495

Ingred Name:NICKEL (SARA 313) (CERCLA); TOTAL PERCENTAGE OF INGREDIENTS
4, 5 AND 6 = 19

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: SEE ING

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9495

Ingred Name:NICKEL HYDROXIDE (SARA 313) (CERCLA)

CAS:12054-48-7

RTECS #:QR7040000

Fraction by Wt: SEE # 4%

Other

REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG(NI)/M3
ACGIH TLV:0.1 MG(NI)/M3; 9495
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:NICKEL OXIDE
CAS:1313-99-1
RTECS #:QR8400000
Fraction by Wt: SEE # 4%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3 AS NI
ACGIH TLV:1 MG/M3 AS NI

Ingred Name:POTASSIUM HYDROXIDE (CERCLA)
CAS:1310-58-3
RTECS #:TT2100000
Fraction by Wt: 8%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 2 MG/M3
ACGIH TLV:C 2 MG/M3; 9495
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:COBALT (SARA 313)/COBALT HYDROXIDE
CAS:7440-48-4
RTECS #:GF8750000
Fraction by Wt: 1%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1 MG/M3
ACGIH TLV:0.02 MG/M3; A3; 9495

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT NOT RELEVANT.
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Explanation of Carcinogenicity:CONTAINS C [7440-43-9] WHICH IS
LISTED BY NTP AN

D IARC AND REGULATED BY OSHA AS A CARCINOGEN.

Effects of Overexposure:NONE UNDER NORMAL CONDITIONS OF USE. IF LEAKING OR INCINERATED: IRRITATION, EYES AND/OR SKIN BURNS, CHEST PAIN, COUGHING, SWEATING, CHILLS, SHORTNESS OF BREATH, WEAKNESS

Medical Cond Aggravated by Exposure:NONE IN NORMAL CONDITION OF USE.

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

First Aid:GET MEDICAL ATTENTION IMMEDIATELY. EYE/SKIN:IF CONTACT WITH ELECTROLYTE, IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES.

HOLD EYELIDS OPEN. REMOVE CONTAMINATED CLOTHING. INHALED:REMOVE TO FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED. ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS, DILUTE BY DRINKING SEVERAL GLASSES OF MILK OR WATER. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:NONE

Extinguishing Media:USE CARBON DIOXIDE, SAND. USE WATER SPRAY TO KEEP BATTERIES COOL.

Fire Fighting Pr

cedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:CADMIUM AND NICKEL FUMES ARE TOXIC AND CAN CAUSE DEATH. IN CONFINED AREA, HYDROGEN GAS GENERATED BY OVERCHARGING MAY CAUSE EXPLOSION.

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

Spill Release Procedures:BATTERY AND CELL CASES WILL NORMALLY CONTAIN MATERIALS OF CONCERN. USE INDUSTRIAL ABSORBENT TO COLLECT LIQUID POTASSIUM HYDROXIDE.

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utralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:DO NOT SHORT CIRCUIT; MAY CAUSE PERSONAL INJURY & FIRE. AVOID BREAKING, CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INTEGRITY OF THE CELL OR BATTERY

Other Precautions:DO NOT INCINERATE. DO NOT TOUCH BROKEN OR LEAKING BATTERIES. WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING FUMES. KEEP OUT OF REACH OF SMALL CHILDREN.

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===== Exposure Con

trols/Personal Protection =====

Respiratory Protection:USE NIOSH APPROVED RESPIRATOR IF CELL BROKEN OR DURING A FIRE.

Ventilation:USE ADEQUATE LOCAL EXHAUST VENTILATION WHEN HANDLING THE LIQUID IN THE BATTERY OR FUMES PRESENT.

Protective Gloves:NEOPRENE, NITRILE FOR LEAKERS

Eye Protection:SAFETY GOGGLES FOR LEAKERS

Other Protective Equipment:EYE WASH STATION, QUICK DRENCH SHOWER AND IMPERVIOUS CLOTHING

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING.

Supplemental Safety and Health

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

HCC:Z5

NRC/State Lic Num:NOT RELEVANT

Spec Gravity:NOT RELEVANT

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NOT RELEVANT

Appearance and Odor:SEALED NICKEL CADMIUM BATTERY - NO ODOR

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

Stability Indicator/Materials to Avoid:YES

ALUMINUM, ZINC, TIN AND OTHER ACTIVE METALS, ACIDS, CHLORINATED AND AROMATIC HYDROCARBONS, NITROCARBONS, HALOCARBONS

Stability Condition to Avoid:EXCESSIVE HEAT, FIRE

Hazardous Decomposition Products:TOXIC FUMES OF CADMIUM, CADMIUM OXIDE, NICKEL OXIDE, POTASSIUM HYDROXIDE MAY BE FORMED.

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

Waste Disposal Methods:CELLS AND BATTERIES MAY BE RETURNED AT SENDERS EXPENSE TO A PERMITTED TREATMENT, STORAGE, DISPOSAL FACILITY

(TSDF). IF NOT RECYCLED, DISPOSAL MUST BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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