

SAFT AMERICA INC, POWER SOURCES DIV -- NICKEL CADMIUM AIRCRAFT BATTERY --
6140-01-150-5380

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Product Identification
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Product ID:NICKEL CADMIUM AIRCRAFT BATTERY
MSDS Date:10/03/1994
FSC:6140
NIIN:01-150-5380
MSDS Number: BZJJL
=== Responsible Party ===
Company Name:SAFT AMERICA INC, POWER SOURCES DIV
Address:711 INDUSTRIAL BLVD
City:VALDOSTA
State:GA
ZIP:31601
Country:US
Info Phone Num:912-247-2331
Emergency Phone Num:912-247-2331/800-424-9300(CHEMTREC)
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

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Composition/Information on Ingredients
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Ingred Name:NICKEL OXIDE, SOLID
CAS:1313-99-1
RTECS #:QR8400000
Fraction by Wt: 18%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3 AS NI
ACGIH TLV:1 MG/M3 AS NI

Ingred Na

me:POTASSIUM HYDROXIDE (CERCLA)/ELECTROLYTE SOLUTION (30%)

CAS:1310-58-3

RTECS #:TT2100000

Fraction by Wt: 19%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:C 2 MG/M3

ACGIH TLV:C 2 MG/M3; 9596

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:CADMIUM OXIDE (SARA 302/313) (CERCLA), SOLID

CAS:1306-19-0

RTECS #:EV1925000

Fraction by Wt: 13%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.2 MG (CD)/M3 DUST

ACGIH TLV:0.01 MG(CD)/M3; 9596

Ingred Name:COPPER (SARA 313) (CERCLA)

CAS:7440-50-8

RTECS #:GL

5325000

Fraction by Wt: 9%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1MG/M3 FUME/1 DUST

ACGIH TLV:0.2 MG/M3 FUME; 9596

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:NYLON 11

CAS:25587-80-8

Fraction by Wt: 15%

Other REC Limits:NONE RECOMMENDED

===== 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

Explana

tion of Carcinogenicity:CONTAINS CADMIUM [7440-43-9] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN. CONTAINS NICKEL.

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

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

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===== First Aid Measures
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First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. CALL PHYSICIAN. SKIN:WASH WITH SOAP & WATER . ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER OR MILK. GET MEDICAL ATTENTION IMMEDIATELY. NEVER GIVE ANYTHIHG BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:NONE

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:CADMIUM AND NICKEL FUMES ARE TOXIC AND CAN CAUSE DEATH. POTASSIUM HYDROXIDE IS CORROSIVE TO ALL HUMAN TISSUES.

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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. NEUTRALIZE WITH DILUTE CITRIC ACID. FLUSH TO SEWER WITH LARGE AMOUNT OF WATER, IF ALLOWED.

Neutralizing Agent:CITRIC ACID, DILUTE ACETIC ACID

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

Handling and Storage Precautions:STORE IN COOL, DRY PLACE, AWAY FROM FLAME & INCOMPATIBLES. AVOID BREAKING, CRUSHING/OTHE

RWISE

DESTROYING 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. DO NOT TRANSPORT BATTERIES WITHOUT VENT CAP IN PLACE.

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

Respiratory Protection:USE NIOSH APPROVED RESPIRATOR DURING LEVEL CHARGING.

Ventilation:ADEQUATE VENTILATION WHEN HANDLING THE LIQUID IN THE BATTERY OR IF 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

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

HCC:B1

NRC/State Lic Num:NOT RELEVANT

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Spec Gravity:NOT RELEVANT

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NOT RELEVANT

Appearance and Odor:BATTERY - NO ODOR

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

Stability Indicator/Materials to Avoid:YES

AVOID SULFURIC ACID. ELECTROLYTE WILL REACT WITH ALUMINUM, ZINC, TIN .. ACIDS, CHLORINATED HYDROCARBONS, NITROCARBON.

Stability Condition to Avoid:EXCESSIVE HEAT, FIRE

Hazardous Decomposition Products:TOXIC FUMES

OF CADMIUM OXIDE, CADMIUM,
NICKEL OXIDE AND POTASSIUM HYDROXIDE.

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

Waste Disposal Methods:CELLS AND BATTERIES MAY BE RETURNED AT SENDERS EXPENSE TO A PERMITTED TREATMENT, STORAGE, DISPOSAL FACILITY (TSD). DISPOSAL MUST BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAW S AND REGULATIONS. RECYCLING IS RECOMMENDED.

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