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SOURCES SAFT AMERICA INC, POWER DIV -- NICKEL CADMIUM SEALED CELL BATTERY,402474-100 -- 6140-01-014-0595 Product ID:NICKEL CADMIUM SEALED CELL BATTERY,402474-100 MSDS Date:10/03/1994 FSC:6140 NIIN:01-014-0595 MSDS Number: CDYWR === Responsible Party === Company Name:SAFT AMERICA INC, POWER SOURCES DIV Address:711 INDUSTRIAL BLVD Box:1886 City:VALDOSTA State:GA Ζ IP:31603 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 

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;9596 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 302/313) (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; 9596

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red 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; 9596

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; 9596 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:NICKEL OXIDE CAS:1313-99-1 RTECS #:QR 8400000 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; 9596 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; 9596

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT RELEVANT. Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY, GI TRACTS. ACUTE- IN CASE OF FIRE/CELL RUPTURE, ELECTROLYTE CAN CAUSE SEVERE IRRITATION/BURNS TO TISSUE CONTACTED. CAN CAUSE BLINDNESS. NICKEL MAY CAUSE SKIN SEN SITIZATIO

## N. INGESTION CAN BE

HARMFUL/FATAL. CHRONIC- CADMIUM MAY CAUSE LUNG/KIDNEY DAMAGE. NICKEL MAY CAUSE LUNG DAMAGE.

- Explanation of Carcinogenicity:CONTAINS CADMIUM [7440-43-9] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN. ALSO CONTAINS NICKEL
- Effects of Overexposure:NONE UNDER NORMAL CONDITIONS OF USE. IF LEAKING OR INCINERATED: SEVERE IRRITATION, BURNS, CHEST PAIN, COUGHING, SWEATING, CHILLS, SHORTNESS OF BREATH, WEAKNESS, BLINDNESS, NICKEL ITCH

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

First Aid:GET MEDICAL ATTENTION IMMEDIATELY. EYE/SKIN:IF CONTACT WITH POTASSIUM HYDROXIDE ELECTROLYTE, IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. MILD ACID (VINEGAR) MAY BE USED TO NEUTRAL
IZE KOH ON SKIN. INHALED:REMOVETO FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED. ORAL:DO NOT INDUCE VOMITING. IF

CONSCIOUS, DRINK LARGE AMOUNT OF WATER OR MILK.

Flash Point:NONE Lower Limits:NOT RELEVANT Upper Limits:NOT RELEVANT 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 CLOTHIN G AND NIOSH-APPROVED

SELF-CONTAINED BREATHING APPARATUS. HAZARDOUS DECOMPOSITION PRODUCTS MAY BE FORMED.

Unusual Fire/Explosion Hazard:CADMIUM AND NICKEL FUMES ARE TOXIC AND CAN CAUSE DEATH.

Spill Release Procedures: BATTERY AND CELL CASES WILL NORMALLY CONTAIN MATERIALS OF CONCERN. USE INDUSTRIAL ABSORBENT TO COLLECT LIQUID POTASSIUM HYDROXIDE. WEAR RUBBER GLOVES. NEUTRALIZE WITH CITRIC ACID. Neutralizi

ng Agent:CITRIC ACID

- Handling and Storage Precautions:DO NOT SHORT CIRCUIT. 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. NO SMOKING DURING BATTERY CHARGING. ALWAYS USE EXTREME CARE. AVOID

## OPEN FLAME.

Respiratory Protection:IF INCINERATED, USE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED AIR RESPIRATOR WITH FULL FACEPIECE, OPERATED IN POSITIVE PRESSURE MODE. Ventilation:USE ADEQUATE LOCAL EXHAUST VENTILATION WHEN FUMES PRESENT. Protective Gloves:NEOPRENE, NITRILE FOR LEAKERS Eye Protection:CHEMICAL SPLASH GOGGLES FOR LEAKERS Other Protective Equipment:EYE WASH STATION, QUICK DRENCH SHOW ER AND IMPERVIOUS CLOTHING Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING. Supplemental Safety and Health THE MANUFACTURER STATES EACH SEALED NICKEL CADMIUM BATTERY IS NOT HAZARDOUS AND IS NOT REGULATED.

## HCC:N1

NRC/State Lic Num:NOT RELEVANT Spec Gravity:1.17-1.25 ELECT Viscosity:NOT RELEVANT Evaporation Rate & amp; R eference:NOT RELEVANT Solubility in Water:NOT RELEVANT Appearance and Odor:BATTERY - NO ODOR

Stability Indicator/Materials to Avoid:YES ORGANIC CHEMICALS, ACIDS, METALS SUCH AS ZINC, ALUMINUM, TIN, CHLORINATED AND AROMATIC HYDROCARBONS, NITROCARBONS Stability Condition to Avoid:EXCESSIVE HEAT, FIRE Hazardous Decomposition Products:TOXIC FUMES OF CADMIUM OXIDE, NICKEL OXIDE, CADMIUM, POTASSIUM HYDROXIDE

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

Waste Disposal Methods:CELLS AND BATTERIES MAY BE RETURNED TO SAFT FOR RECYCLING OR AT SENDERS EXPENSE TO A PERMITTED TREATMENT, STORAGE, DISPOSAL FACILITY (TSDF). DISPOSAL MUST BE MADE IN ACCORDANCE WITH ALL APPLICABLE FED ERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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