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SAFT AMERICA INC TRANSPORTATION DIV -- SAFT BRAND NICKEL CADMIUM SEALED CELL BATTERY -- 6140-01-113-0014

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

Product ID:SAFT BRAND NICKEL CADMIUM SEALED CELL BATTERY
MSDS Date:10/03/1994
FSC:6140
NIIN:01-113-0014
Status Code:A
MSDS Number: CKQDS
=== Responsible Party ===
Company Name:SAFT AMERICA INC TRANSPORTATION DIV
Address:711 INDUSTRIAL BLVD
Box:1886
City:VAL
DOSTA
State:GA
ZIP:31601-1886
Country:US
Info Phone Num:912-247-2331
Emergency Phone Num:912-247-2331
Chemtrec Ind/Phone:(800)424-9300
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
CAS:7440-43-9
RTECS #:EU9800000
= Wt:17.
OSHA PEL:SEE 1910.1027
EPA Rpt Qty:10 LBS
DOT

Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE
CAS:21041-95-2
RTECS #:EV1260000
= Wt:17.
OSHA PEL:5 MCG/M3 (CD)

Ingred Name:CADMIUM OXIDE
CAS:1306-19-0
RTECS #:EV1925000
= Wt:17.
OSHA PEL:5 MCG/M3 (CD)

Ingred Name:NICKEL
CAS:7440-02-0
RTECS #:QR5950000
= Wt:19.
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3

Ingred Name:NICKEL HYDROXIDE
CAS:12054-48-7
RTECS #:QR7040000
= Wt:19.
OSHA PEL:1 MG/M3 (AS NI)
ACGIH TLV:1 MG/M3
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:NICKEL OXIDE
CAS:1313-99-1
RTECS #:Q
R8400000
= Wt:19.
OSHA PEL:1 MG/M3 (AS NI)

Ingred Name:POTASSIUM HYDROXIDE
CAS:1310-58-3
RTECS #:TT2100000
= Wt:8.
ACGIH STEL:C2 MG/M3
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:COBALT HYDROXIDE AS COBALT METAL
CAS:7440-48-4
RTECS #:GF8750000
= Wt:1.
OSHA PEL:0.1 MG/M3
ACGIH TLV:0.02 MG/M3

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

LD50 LC50 Mixture:NO DATA PROVIDED BY RESPONSIBLE PARTY.
Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES
Health Hazard

s Acute and Chronic:EYE EFFECTS: IN THE CASE OF A FIRE OR CELL RUPTURE THE ELECTROLYTE SOLUTION INSIDE BATTERY IS EXTREMELY CORROSIVE TO EYE TISSUES. MAY RESULT IN PERMANENT BLINDNESS. CONTACT WITH NICKEL OXIDE MAY CAUSE MINOR IRRITATION. SKIN EFFECTS: CONTACT WITH ELECTROLYTE SOLUTION INSIDE BATTERY MAY CAUSE SERIOUS BURNS TO SKIN TISSUES. CONTACT WITH NICKEL COMPOUNDS MAY CAUSE SKIN SENSITIZATION, RESULTING IN CHRO NIC ECZEMA OR NICKEL ITCH. INGESTION: INGESTION OF ELECTROLYTE SOLUTION CAUSES TISSUE DAMAGE TO THROAT AREA AND GASTRO/RESPIRATORY TRACT. INGESTION OF NICKEL COMPOUND CAUSES NAUSEA AND INTESTIONAL DIS ORDERS. INHALATION: NO EXPOSURE POSSIBLE

Explanation of Carcinogenicity:NIOSH RECOMMENDS THAT NICKEL AND CADMIUM BE TREATED AS OCCUPATIONAL CARCINOGENS.

Effects of Overexposure:EYE EFFECTS: IN THE CASE OF A FIRE OR CELL RUPTURE THE ELECTROLYTE SOLUTION INSIDE BATTERY IS EXTREMELY CORROSIVE TO EYE TISSUES. MAY RESULT IN PERMANENT BLINDNESS. CONTACT WITH NICKEL OXIDE MAY CAUSE MINOR IRRITATION. SKIN EFFECTS: CONTACT WITH ELECTROLYTE SOLUTION INSIDE BATTERY MAY CAUSE SERIOUS BURNS TO SKIN TISSUES. CONTACT WITH NICKEL COMPOUNDS MAY CAUSE SKIN SENSITIZATION, RESULTING IN CHRO NIC ECZEMA OR NICKEL ITCH. INGESTION: INGESTION OF ELECTROLYTE SOLUTION CAUSES TISSUE DAMAGE TO THROAT AREA AND GASTRO/RESPIRATORY TRACT. INGESTION OF NICKEL COMPOUND CAUSES NAUSEA AND INTESTIONAL DIS ORDERS. INHALATION: NO EXPOSURE POSSIBLE

Medical Cond Aggravated by Exposure:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

First Aid:EYE CONTACT: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES IF ABUSE CAUSES SAFETY VENTS TO ACTIVATE. GET IMMEDIATE MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING & FLUSH AFFECTED A REAS WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. WASH WITH SOAP & WATER. INGESTION: DO NOT INDUCE VOMITING. DILUTE BY GIVING WATER. IF AVAILABLE GIVE SEVERAL GLASSES OF MILK. GET IMMEDIATE MEDICAL A TTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED. GET IMMEDIATE MEDICAL ATTENTION.

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

Upper Limits:N/P`

Extinguishing Media:CARBON DIOXIDE (CO2), SAND.

Fire Fighting Procedures:USE SELF-CONTAINED BREATHING APPARA

TUS TO
AVOID BREATHING TOXIC FUMES. WEAR PROTECTIVE CLOTHING AND EQUIPMENT TO PREVENT POTENTIAL BODY CONTACT WITH ELECTROLYTE SOLUTION OR MIXTURE OF WATER AND SOLUTI ON.
Unusual Fire/Explosion Hazard:ELECTROLYTE SOLUTION CORROSIVE TO ALL HUMAN TISSUES. REACTS VIOLENTLY W/MANY ORGANIC CHEMICALS, ESPECIALLY NITROCARBONS & CHLOROCARBONS. ELECTROLYTE SOLUTION REACTS WITH ZINC, ALUMINUM, TIN & OTHER AC TIVE MATERIALS RELEASING FLAMMABLE HYDROGEN GAS. CADMIUM FUMES MAY BE R
ELEASEDIF BATTERY
SUBJECTED TO HIGH TEMPERATURES.

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

Spill Release Procedures:ELECTROLYTE SPILLS: FLUSH WITH WATER AND NEUTRALIZE WITH DILUTE CITRIC ACID.
Neutralizing Agent:NEUTRALIZE WITH DILUTE CITRIC ACID.

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

Handling and Storage Precautions:THESE CELLS AND THE BATTERIES CONSTRUCTED FROM THEM MAY BE HIGHLY CHARGED AND ARE CAPABLE OF HIGH ENERGY
DISCHARGE. CARE SHOULD BE TAKEN TO HANDLE CELLS PROPERLY TO AVOID SHORTING OR MISUSE THAT WILL RESULT IN RAPID UNCONTROLLED ELECTRICAL, CHEMICAL, OR HEAT ENERGY RELEASE.
Other Precautions:DO NOT SHORT CIRCUIT. DO NOT BREAK OPEN CELL. DO NOT ALLOW AN EXPOSED FLAME OR SPARK TO COME NEAR THE CELLS.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR IF CELL IS BROKEN OPEN DURING A FIRE TO MAINTAIN EXPOSURE
LEVELS BELOW THE TWA
FOR CADMIUM AND NICKEL COMPOUNDS.
Ventilation:NO DATA PROVIDED BY RESPONSIBLE PARTY.
Protective Gloves:USE ANY WATER-INSOLUBLE NON-PERMEABLE GLOVES.
Eye Protection:USE SPLASH GOGGLES OR FACE SHIELD IF CELL ACTIVATES DUE TO ABUSE.
Other Protective Equipment:RUBBER APRON OR EQUIVALENT IF EXPOSURE TO ELECTROLYTE SOLUTION IS LIKELY.
Work Hygienic Practices:NO DATA PROVIDED BY RESPONSIBLE PARTY.
Supplemental Safety and Health
NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

HCC:Z5
Spec Gravity:1.170-1.250 ELDECTROLYTE
Evaporation Rate & Reference:N/D
Solubility in Water:ELECTROLYTE IS SOLUBLE

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

Stability Condition to Avoid:ALUMINUM, ZINC, TIN AND OTHER ACTIVE METALS, ACID, CHLORINATED AND AEROMATIC HYDROCARBONS, NITROCARBONS, HALOCARBONS.

========== Toxicological Information ==========

Toxicologica
l Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

========== Ecological Information ==========

Ecological:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

Waste Disposal Methods:THE STORAGE BATTERY IS A HAZARDOUS WASTE UNDER RCRA. IT MAY BE RETURNED TO SAFT FOR RECYCLING.

========== MSDS Transport Information ==========

Transport Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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========== Regulatory Information ==========

SARA Title III Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.
Federal Regulatory Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.
State Regulatory Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. T