

SAFT AMERICA INC -- NICKEL CADMIUM SEALED CELL BATTERY -- 6140-00-068-7356

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Product Identification
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Product ID:NICKEL CADMIUM SEALED CELL BATTERY

MSDS Date:10/03/1994

FSC:6140

NIIN:00-068-7356

MSDS Number: BXC MC

=== Responsible Party ===

Company Name:SAFT AMERICA INC

Address:711 INDUSTRIAL BLVD

City:VALDOSTA

State:GA

ZIP:31801

Country:US

Info Phone Num:912-247-2331/912-245-2880 FAX

Emer

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

Chemtrec Ind/Phone:(800)424-9300

CAGE:67237

=== Contractor Identification ===

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

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Composition/Information on Ingredients
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Ingred Name:CADMIUM (INGREDIENT # 1+2+ 3 ARE < 17%)

CAS:7440-43-9

RTECS #:EU9800000

< Wt:17.

OSHA PEL:see 1910.1027

EPA Rpt Qt

y:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE (INGREDIENT # 1+2+ 3 ARE < 17%)
CAS:21041-95-2
RTECS #:EV1260000

Ingred Name:CADMIUM OXIDE (INGREDIENT # 1+2+ 3 ARE < 17%)
CAS:1306-19-0
RTECS #:EV1925000

Ingred Name:NICKEL (INGREDIENT #4+5+6 < 19%)
CAS:7440-02-0
RTECS #:QR5950000
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3

Ingred Name:NICKEL HYDROXIDE (INGREDIENT #4+5+6 < 19%)
CAS:12054-48-7
RTECS #:QR7040000
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LB
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Ingred Name:NICKEL OXIDE (INGREDIENT #4+5+6 < 19%)
CAS:1313-99-1
RTECS #:QR8400000

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

Ingred Name:COBALT
CAS:7440-48-4
RTECS #:GF8750000
Fraction by Wt: ~1%
OSHA PEL:0.1 MG/M3
ACGIH TLV:0.02 MG/M3

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

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE
Routes of Entry: Inhalation:NO

Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:SEALED BATTERIES ARE NON-HAZARDOUS UNDER NORMAL USE. IF BATTERIES ARE RUPTURED/IN FIRE/ INTENTIONALLY OPENED: ELECTROLYTE IS EXTREMELY CORROSIVE TO TISSUES. MAY RESULT IN PERMANENT BLINDNESS. MAY CAUSE SERIOUS BURNS TO SKIN TISSUE. INGESTIONMAY CAUSE TISSUE DAMAGE TO THROAT AREA AND GI TRACT. INHALATION OF CADMIUM AND/OR NICKEL FUMES MAY CAUSE DRY THROAT, COUGH, HEA

DACHE, VOMITING, CHEST PAIN, CHILL S.

Explanation of Carcinogenicity:BATTERY IS SEALED CELL. NISOH RECOMMENDS THAT NICKEL AND CADMIUM BE TREATED AS OCCUPATIONAL CARCINOGENS IF CELL DAMAGED.

Effects of Overexposure:EYE BURNS, BLINDNESS, TISSUE DAMAGE, SKIN BURNS, GI TRACT DAMAGE, DRY THROAT, COUGH, HEADACHE, VOMITING, CHEST PAINS, CHILLS, PULMONARY EDEMA, BREATHING DIFFICULTY, PROSTRATION, KIDNEY DAMAGE.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET MEDICAL ATTENTION. INH ALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. DILUTE WITH WATER OR MILK. GET MEDICAL ATTENTION.

===== Fire Fighting Measures

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Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:CARBON DIOXIDE, SAND

Fire Fighting Procedures:USE SELF-CONTAINED BREATHING APPARATUS TO AVOID BREATING TOXIC FUMES. WEAR PROTECTIVE CLOTHING AND EQUIPMENT TO PREVENT POTENTIAL BODY CONTACT WITH ELECTROLYTE.

Unusual Fire/Explosion Hazard:CADMIUM FUMES MAY BE RELEASED WHEN BATTERIES ARE SUBJECTED TO HIGH TEMPERATURES. IN CASE OF FIRE, DO NOT BREATHE SMOKE AND FUMES.

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

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

Neutralizing Agent: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. DO NOT SHORT CIRCUIT.

Other Precautions:CARE SHOULD BE TAKEN TO HA
NDLE CELLS PROPERLY TO

AVOID SHORTING OR MISUSE THAT WILL RESULT IN RAPID UNCONTROLLED
ELECTRICAL, CHEMICAL OR HEAT ENERGY RELEASE. DO NOT BREA OPEN CELL.
DO NOT ALLOW AN EXP OSED FLAME OR SPARK TO COME NEAR THE CEL

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIARATOR IF CELL
BROKEN OPEN DURING FIRE TO MAINTAIN EXPOSURE LEVELS BELWO TWA FOR
CADMIUM AND NICKEL COMPOUNDS.

Ventilation:LOCAL EXHAUST AND M
ECHANICAL (GENERAL) VENTILATION AS
REQUIRED TO MAINTAIN EXPOSURE LEVELS.

Protective Gloves:SYNTHETIC RUBBER--NOT LEATHER OR WOOL.

Eye Protection:SPLASH GOGGLES OR FACE SHIELD

Other Protective Equipment:RUBBER APRON OR EQUIVALENT IF EXPOSURE TO
ELECTROLYTE IS LIKELY.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER
BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health
NONE SPECIFIED BY MANUFACTURER.

===== Physical/C
hemical Properties =====

HCC:Z5

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:NOT GIVEN

Vapor Density:NOT GIVEN

Spec Gravity:1.170-1.250

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:ELECTROLYTE SOLUBLE

Appearance and Odor:SEALED CELL NICKEL-CADMIUM BATTERY

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

Stability Indicator/Materials to Avoid:YES

ORGANIC CHEMICALS, ESPECIALLY NITROCARBONS AND CHLOROCARBONS. A

LSO

ZINC, ALUMINUM, TIN, OTHER ACTIVE MATERIALS.

Stability Condition to Avoid:PHYSICAL DAMAGE, SHORT CIRCUITING

Hazardous Decomposition Products:HYDROGEN GAS, CADMIUM FUMES, NICKEL
OXIDE, CADMIUM OXIDE, POTASSIUM HYDROXIDE.

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

Waste Disposal Methods:THE STORAGE BATTERY IS A HAZARDOUS WASTE UNDER
RCRA. IT MAY BE RETURNED TO SAFT FOR RECYCLING. BATTERY IS TCLP
TOXIC. BATTERY AND ELECTROLYTE SOLUTION ARE CORROSIVE. I

F NOT

RECYCLED, MUST BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL,
STATELAWS.

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

Transport Information:AS SUCH THESE BATTERIES ARE NON-HAZARDOUS, AND
ARE NOT RESTRICTED FOR TRANSPORTATION.

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