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SAFT AMERICA INC PRIMARY BATTERY DIVISION -- NICKEL CADMIUM AIRCRAFT BATTERY -- 6140-00-402-6350

Product ID:NICKEL CADMIUM AIRCRAFT BATTERY MSDS Date:10/03/1994 FSC:6140 NIIN:00-402-6350 Status Code:A **MSDS Number: CKJTZ** === Responsible Party === Company Name:SAFT AMERICA INC PRIMARY BATTERY DIVISION Address:711 INDUSTRIAL BLVD Box:1886 City:VALDOSTA State:GA ΖI P:31601-6512 Country:US Info Phone Num:912-245-2809;912247-2331 Emergency Phone Num:912-247-2331 Chemtrec Ind/Phone:(800)424-9300 CAGE:01306 === Contractor Identification === Company Name:SAFT AMERICA INC PRIMARY BATTERY DIVISION Address:711 INDUSTRIAL BLVD Box:1886 City:VALDOSTA State:GA ZIP:31601-6512 Country:US Phone:912-247-2331 CAGE:01306 Company Name:SAFT AMERICA INC. Address:711 INDUSTRIAL BLVD Box:1886 City:VALDOSTA State:GA ZIP:31602 Country:US Phone:912-247-2331 Contract Num:SP0430-99

CAGE:09052 Ingred Name:CADMIUM OXIDE CAS:1306-19-0 RTECS #:EV1925000 = Wt:13. Ingred Name:NICKEL OXIDE CAS:1313-99-1 RTECS #:QR8400000 = Wt:18. Ingred Name: POTASSIUM HYDROXIDE (30% POTASSIUM HYDROXIDE) CAS:1310-58-3 RTECS #:TT2100000 = Wt:19. ACGIH STEL:C2 MG/M3 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ingred Name:COPPER CAS:7440-50-8 RTECS #:GL5325000 = Wt:9. OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 EPA Rpt Qty:5000 LB S DOT Rpt Qty:5000 LBS Ingred Name:NYLON II

= Wt:15.

-C-5030

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Health Hazards Acute and Chronic:EYES: CONTACT WITH ELECTROLYTE SOL'N INSIDE BATTERY CAUSES VERY RAPID, SEVERE DAMAGE. EXTREMELY CORROSIVE TO EYE TISSUES. MAY RESULT IN PERMANENT BLINDNESS. CONTACT WITH NICKEL OXIDE MAY CAUSE MINOR IRRITATION. SKIN: CONTACT WITH ELECTROLYTE SOL'N INSIDE BATTERY MAY CAUSE SERIOUS BURNS TO SKIN TISSUES. CONTACT WITH NICKEL MAY CAUSE SKIN SENSITIZATION. INGESTION: INGESTION OF ELECTROLYTE SOL'N CA USES TISSUE DAMAGE TO THROAT AREA & GASTROINTESTINAL DISORDERS. INHALATION: KOH MIST CAUSES VARYING DEGREES OF IRRITATION OF THE NASAL MUCOUS MEMBRANES & RESPIRATORY TRACT. INHAL'N OF CADMIUM MAY RESU LT IN PULMONARY EDEMA, & KIDNEY DAMAGE. Explanation of Carcinogenicity:NISOH RECOMMENDS THA

T NICKEL AND CADMIUM

BE TREATED AS OCCUPATIONAL CARCINOGENS.

Effects of Overexposure:EYES: IRRITATION. SKIN: MAY CAUSE SERIOUS BURNS OR CHRONIC ECZEMA OR NICKEL ITCH. INGESTION: CAUSES NAUSEA AND INTESTINAL DISORDERS. INHALATION: DRY THROAT, COUGH, HEADACHE, VOMITING, CHEST PAIN, A ND CHILLS. CHRONIC: PULMONARY EDEMA, BREATHING DIFFICULTY, PROSTRATION, AND KIDNEY DAMAGE. Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. FLUSH AFFECTED AREAS WITH PLENTY OF WATER FOR AT LEAST 15 MIN. IF IRRITATI ON PERSIST, GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. DILUTE WITH WATER OR MILK. GET MEDICAL ATTENTION.

======= Fire Fight

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. DISCONNECT OR CUT ALL CABLES TO AND FRO M BATTERY. ELECTROLYTE SOLUTION IS CORROSIVE TO ALL HUMAN TISSUES. IT WILL REACT VIOLENTLY WITH MANY ORGA NIC CHEMICALS.

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.

Spill Release Procedures: ELECTROLYTE SPILLS: SMALL (UP TO 5 GALLONS)-FLUSH WITH WATER AND NEUTRALIZE WITH DILUTE CITRIC ACID. LARGE-CONTAIN MATERIAL IN SUITABLE CONTAINERS OR HOLDING AREA. DO NOT ALLOW MATERIAL TO ENTER SE WERS, STR EAMS, OR STORM CONDUITS. RECOVER MATERIAL WITH VACUUM TRUCK ADN DISPOSE OF PROPERLY.

REPORTABLE QUANTITY: 1000 LBS, 40 CFR 117.13.

Neutralizing Agent:CITRIC ACID.

Handling and Storage Precautions:DO NOT TRANSPORT BATTERIES WITHOUT VENT CAP IN PLACE. WHEN REMOVING BATTERY FROM SERVICE VISUALLY INSPECT FOR LEAKAGE PRIOR TO HANDLING. IF LEAKAGE HAS OCCURRED FOLLOW SPILL MANAGEMENT PROCEDURES. DO NOT ALLOW AN EXPOSED FLAME

OR SPARK TO COME NEAR THE CELLS.

Other Precautions: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.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR DURING LEVEL CHARGING TO MAINTAIN EXPOSURE LEVELS BELOW THE TWA. Ventilation:PERFORM LEVEL CHARGING PROCEDURES IN A WELL VENTILATED

AREA. BATTERY OPERAATING AREAS MUST BE WELL VENTILATED. Protective Gloves:SYNTHETIC RUBBER--NOT LEATHER OR WOOL. Eye Protection:SPLASH GOGGLES OR FACE SHIELD Other Protective Equipment:RUBBER BOOTS AND/OR 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/Chemic

HCC:B1 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:1.250-1.30, ELECTROLTYE Evaporation Rate & amp; Reference:NOT GIVEN Solubility in Water:ELECTROLYTE SOLUBLE

Stability Indicator/Materials to Avoid:YES
ALUMINUM, ZINC, TIN & OTHER ACTIVE METALS, ACID, CHLORINATED & AROMATIC HYDROCARBONS, NITROCARBONS, HALOCAR
BONS. TRCHOLOROETHYLENE WILL REACT WITH ELECTROLYTE SOL'N & IS COMBUSTIBLE.
Stability Condition to Avoid:PHYSICAL DAMAGE, SHORT CIRCUITING
Hazardous Decomposition Products:NICKEL OXIDE, CADMIUM, CADMIUM OXIDE, AND POTASSIUM HYDROXIDE. NORMAL REACTIONS INSIDE BATTERY LIBERATE FLAMMABLE HYDROGEN GAS.

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

NG. BATTERY IS TCLP TOXIC. BATTERY AND ELECTROLYTE SOLUTION ARE CORROSIVE. IF NOT RECYCLED, MUST BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

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