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SANYO ENERGY USA CORP -- CADNICA 1.2V, NICKEL CADMIUM BATTERY -- 6140-01-102-4500

Product ID:CADNICA 1.2V, NICKEL CADMIUM BATTERY MSDS Date:12/14/1992 FSC:6140 NIIN:01-102-4500 **MSDS Number: CGLFD** === Responsible Party === Company Name: SANYO ENERGY USA CORP Address:2001 SANYO AVE **City:SAN DIEGO** State:CA ZIP:92173 Country:US Info Phone Num:619-661-6620 **Emergency P** hone Num:619-661-6620 CAGE:00JU0 === Contractor Identification === Company Name: DUNN R G ASSOCIATES INC Address:15104 LEE RD SUITE 203-B Box:City:HUMBLE State:TX ZIP:77396-2078 Country:US Phone:281-441-2001/FAX: 281-441-7772 CAGE:0A272 Company Name: SANYO ENERGY(U.S.A.) CORP. Address:2001 SANYO AVE Box:City:SAN DIEGO State:CA ZIP:92173 Country:US Phone:619-661-6620 CAGE:00JU0

Ingred Name:CADMIUM (SARA 313) (CERCLA) CAS:7440-4

RTECS #:EU9800000 Fraction by Wt: 11-26% 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: 11-26% Other REC Limits:NONE RECOMMENDED OSHA PEL:0.05 MG CD/M3 ACGIH TLV:0.05 MG CD/M3

Ingred Name:NICKEL (SARA 313) (CERCLA) CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 8-17% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9596

Ing

red Name:NICKEL HYDROXIDE (SARA 313) (CERCLA) CAS:12054-48-7 RTECS #:QR7040000 Fraction by Wt: 5-12% 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: POTASSIUM HYDROXIDE (CERCLA) CAS:1310-58-3 RTECS #:TT2100000 Fraction by Wt: 212F CAN CAUSE EVAPO OF LIQ(KOH ELECTRO)RESULT IN CELL RUPTURE.POT FOR EXPO TO CD FUMES DUING FIRE; USE SCBA. Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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## 3-9

Spill Release Procedures:SPILL/LEAK UNLIKELY-CELLS CONTAIN IN HERMETICALLY SEALED CASE.CASE BREACH DON PROT CLOTH IMPERV TO CAUSTIC MATLS.ABSORB/PACK RESIDUE IN INERT MATL. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:STORE IN COOL PLACE, PREVENT CONDENS ON CELL/BATT TERMINALS.ELEV TEMPS RESULT IN RED BATT LIFE.OPTI MUM

STORAGE TEMP:31F-95F.DONT SHAKE BATT IN BULK CNT Other Precautions:CONCEN OF INGREDS VARY DEPENDING ON STATE OF CHARGE OR DISCHARGE.ENCAP/SEAL REQMT & SOLDER/WELD ALL SANYO FOR HAZ PRECAUT/LIMITATIONS.DONT INCINERATE/SUBJ TO TEMP >212F-CAN VAPORZIE LIQ CAUSE CELL RUP TURE.INCINERATION MAY CAUSE CD EMISSIONS

Respiratory Protection:NOT REQUIRED UNDER NORMAL USE. Ventilation:NOT REQUIRED UNDER NORMAL USE.

Prot

ective Gloves:NOT REQUIRED UNDER NORMAL USE.

Eye Protection:NOT REQUIRED UNDER NORMAL USE.

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices: BATT DESIGNED FOR RECHARGING. CHARGE BATT BEF USE. OBSERVE SPEC CHARGE RATE.

Supplemental Safety and Health

DURING NORMAL USE HAZ MATLS FULLY CONTAINED INSIDE BATT CELL.EXPO TO FIRE/EXPLO/EXTREME ABSUE/MISUSE/IMPROPER DISPO RESULT IN BREACHING BATT CELL CASE HAZ MATLS MAY BE RELEASED.

====== Physical/

Chemical Properties ================

HCC:N1 Boiling Pt:B.P. Text:NP Melt/Freeze Pt:M.P/F.P Text:NP Decomp Temp:Decomp Text:NP Vapor Pres:NP Vapor Density:NP Spec Gravity:NP pH:NP Viscosity:NP Evaporation Rate & amp; Reference:NP Solubility in Water:NP Appearance and Odor:MFG ARTICEL PER 29CFR1910.1200.BATT CELL IN HERMETICALLY-SEALED CASE. Percent Volatiles by Volume:NP Corrosion Rate:NP

Stability Indicator/Materials to

## Avoid:YES

BATT CELL IN ENCASED IN NON-REACTIVE CNTNR; BREACHED-AVOID INTERNAL BATT CONTACT W/ACIDS, ALDEHYDES, CARBAMATE CMPDS.

Stability Condition to Avoid:HEAT,OPN FLAMES,SPARKS,MOISTURE.RE.AVOID PROL SHORT CIRCUIT-HEAT BURN SKIN,RUPTURE BATT CASE. Hazardous Decomposition Products:OXIDES OF CADMIUM & NICKEL.

Waste Disposal Methods:DISPO OF AS HAZ WASTE IAW APPLIC STATE/FED REGS.RESULTANT SPILL RESIDUES MAY BE CHARA

CTER AS

D002(CAUSTIC),D005(CD)PER RCRA.RETURN TO SANYO FOR RECYCLE.CALL SANYO REP FOR INFO ON EARTHSAVER 2001 RECYC L PROGRAM.BATT HNDLG IAW ALL STATE/FED LAWS/REGS.

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