

SANYO ENERGY USA CORP -- NICKEL CADMIUM BATTERY, KR-2300SCE -- 6140-01-080-2886

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

Product ID:NICKEL CADMIUM BATTERY, KR-2300SCE

MSDS Date:12/14/1992

FSC:6140

NIIN:01-080-2886

MSDS Number: CCLWQ

=== 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 Phone

Num:619-661-6620

Preparer's Name:PHILIP P. THURMAN

CAGE:00JU0

=== Contractor Identification ===

Company Name:MATHEWS ASSOCIATES INC

Address:645 HICKMAN CIRCLE

Box:City:SANFORD

State:FL

ZIP:32771

Country:US

Phone:407-323-3390

CAGE:4U927

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

===== Composition/Information on Ingredients =====

Ingred Name:CADMIUM (SARA 313) (CERCLA)

CAS:7440-4

3-9

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: 100C CAN CAUSE EVAPO OF

LIQ(KOH)ELECTROLYTE RESULTING IN RUPTURE OF CELL.POTENTIAL FOR EXPO

TODC FUMES DURING FIRE;USE SELF-CONTAIN BREATH APPARATUS.

Unusual Fire/Explosion Hazar

d:NONE SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:SPILL/LEAK UNLIKELY-CELLS CONTAINED IN HERMETICALLY SEALED CASE.IF BREACHED DON PPE IMPERVIOUS TO CAUSTIC MATL.ABSORB/PACK SPILL RESIDUES IN INERT MATL.DIPSO OF HAZ WASTE IAW FED REGS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:BATT DESIGN TO RECHARGE.LOSS OF

VOLTAGE/CAP OF BATT TO SELFRECHARGE DURING PROL STORAGE DURING PROL STORAGE UNAVOIDABLE.CHARGE BEF USE-OBSERVE RATE.

Other Precautions:SPECIAL ENCAPSULATION/SEALING REQMTS/SOLDER/WELD TO BATT CASE CONSULT SANYO ENERGY CORP FOR PROPER PRECAUT TO PREVENT SEAL DMG/EXT SHORT CIRCUIT/CELL HAZ PRECAUT/LIMITATIONS.STORE IN COOL PLACE;PREVENT CONDENSATION.HI TEMP REDUCE LIFE.

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

Respiratory Protection:NOT REQUIRED UNDER NORMAL USE.

Ventilation:NOT REQUIRED UNDER NORMAL USE.

Protective Gloves:NOT REQUIRED UNDER NORMAL USE.

Eye Protection:NOT REQUIRED UNDER NORMAL USE.

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

CD:SILVER-WHITE,BLUE-TINGED,LUSTROUS METAL,BPT/MPT(C):764/321,SPEC

GRAV:8.65,H2O INSOL;CD(OH)2:POWDER,SPEC GRAV:4.79H2O

INSOL;NI:POWDER,BPT/MPT:2834/1555,SPEC GRAV:8.90,H2O INS

OL;NI(OH)2:GREEN POWDER, (LIQ/PASTE IN BATT ACTS AS ELECTRO),H2OINSOL;KOH:WHITE/SLIGHTLY YELLOW,(LIQ/PASTE IN BATT ACTS AS ELECTRO),H2O SOL

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

HCC:T6

Boiling Pt:B.P. Text:SUPPLEMENTA

Melt/Freeze Pt:M.P/F.P Text:SUPPLEMENTL

Decomp Temp:Decomp Text:NP

Vapor Pres:NA

Vapor Density:NP

Spec Gravity:SUPPLEMENTAL

pH:NP

Viscosity:NP

Evaporation Rate & Reference:NP

Solubility in Water:SUPPLEMENTAL.

Appearance and Odor:SUPPLEME

NTAL.  
Percent Volatiles by Volume:NP  
Corrosion Rate:NP

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

NONE SPECIFIED BY MANUFACTURER.  
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.  
Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods:DON'T INCINERATE(CD EMISSIONS)/SUBJ TO TEMP  
>100C-VAN VAP LIQ ELECTROLYTE CAUSING CELL RUPTURE.HNDL IAW ALL  
APPLICAB  
LE FED LAWS/REGS.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.