

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

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= 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:7440-43-9

RTECS #:EU9800000

Fraction by Wt: 11-26%

Other REC Limits:NO

NE 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

Ingred Name:NICKEL HYDROXIDE (SARA 313) (CERCLA)
CAS:12054-48-7
RTE
CS #: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 Hazard:NONE SPECIFIED BY MANUFACTURER.

===== Accidenta

I 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 NORMA
L 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

INSOL;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:SUPPLEMENTAL.

Percent Volatiles by Volume:NP

Corrosion Rate:NP

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===== 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
APPLICABLE FED LAWS/REGS.

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