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SANYO ENERGY USA CORP -- NICKEL CADMIUM BATTERY TYPE NO: CADNICA -- 6140-01-381-1058

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

Product ID:NICKEL CADMIUM BATTERY TYPE NO: CADNICA

MSDS Date:12/09/1999

FSC:6140

NIIN:01-381-1058

Status Code:A

MSDS Number: CKDRB === Responsible Party ===

Company Name: SANYO ENERGY USA CORP

Address:2001 SANYO AVE

City:SAN DIEGO

State:CA ZIP:92173 Country:US

Info Phone Num:619-6

81-6620

Emergency Phone Num:619-661-6620

CAGE:00JU0

=== Contractor Identification ===

Company Name: BLACK AND DECKER, US, INC

Address: HWY 301 S

Box:64429

City:FAYETTEVILLE

State:NC ZIP:28306 Country:US

Phone:919-423-3100

CAGE:58243

Company Name: KAMPI COMPONENTS CO., INC.

Address:210 RT 13

Box:721 City:BRISTOL State:PA

ZIP:19007-3517

Country:US

Phone:215-736-2000

Contract Num:SP0430-98-M-JP70

CAGE:7Z016

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

CAS:7440-43-9

RTECS #:EU9800000 Minumum % Wt:11. Maxumum % Wt:26.

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.005 MG/M3 TWA ACGIH TLV:0.05 MG/M3 TWA

EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name: CADMIUM HYDROXIDE

CAS:21041-95-2 RTECS #:EV1260000 Minumum % Wt:11. Maxumum % Wt:26.

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.005 MG/M3 TWA

ACGIH TLV:0.05 M

G/M3 TWA

Ingred Name: NICKEL (POWDER)

CAS:7440-02-0

RTECS #:QR5950000 Minumum % Wt:8. Maxumum % Wt:17.

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3

Ingred Name:NICKEL HYDROXIDE

CAS:12054-48-7 RTECS #:QR7040000 Minumum % Wt:5. Maxumum % Wt:12.

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:POTASSIUM HYDROXIDE

CAS:1310-58-3 RTECS #:TT2100000

< Wt:3.

Other REC Limits: NONE RECOMMENDED

OSHA PEL:2 MG/M

3 CEILLING ACGIH TLV:2 MG/M3 CEILLING

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

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

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: BATTERY IS HERMETICALLY SEALED. SHOULD BATTERIES BE EXPOSED TO EXTREME HEAT/PRESSURE CAUSING A BREACH IN CASE, DUSTS AND FUMES INHALATION MAY CAUSE IRRITATION OF RESPIRATORY TRACT, EXTREME RE

ST LESSNESS, PNEUMONITIS. IN CASE OF

HIGH CONCENTRATION EXPOSURES, DEATH MAY OCCUR WITHIN SEVERAL DAYS AFTER EXPOSURE. ELECTROLYTE CAN CAUSE SEVERE EYE AND SKIN IRRITATION, CHEMICAL BURNS. NICKEL MAY CA USE DERMATITIS. INGESTION MAY CAUSE LOCALIZED BURNS. CHRONIC - LUNG CANCER, LIVER AND KIDNEY DISFUNCTION, SKELETAL DISEASE, REPRODUCTIVE TOXICITY, DERMATITIS.

Explanation of Carcinogenicity:HAZARDOUS MATERIAL CONTAINED IN SEALED CASE. BATTERY NOT HAZARDOUS. IF CASE IS BR

EACHED, EXPOSURE TO

CADMIUM AND NICKEL IS POSSIBLE. THESE HAVE BEEN IDENTIFIED BY NTP AS ANTICIPATED CARCINOGENS. U.S. E PA CLASSIFIED CADMIUM AS "B1" PROBABLE HUMAN CANCINOGEN. IARC LISTS CADMIUM "2A" PROBABLE HUMAN CARCINOGEN. ACGIH PROPOSED LISTING CADMIUM AS "A2" CARCINOGEN.

Effects of Overexposure:INTACT BATTERY NO SIGNS AND SYMPTOMS OF OVER EXPOSURE. FOR BREACHED BATTERY CASES AND EXPOSURE TO BATTERY INGREDIENTS: PAIN, NAUSEA, VOMITING, DIARRHEA, SEVERE IRRITATION,

CHEMICAL BURNS, RESTLESSNES S, IRRITABILITY, CHOCKING, SALIVATION, ANEMIA.

Medical Cond Aggravated by Exposure: A KNOWLEDGE OF AVAILABLE TOXICOLOGY INFORMATION AND PHYSICAL AND CHEMICAL PROPERTIES OF BATTERY INGREDIENTS SUGGESTS THAT OVEREXPOSURE IS UNLIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS.

First Aid:INHALATION: IF POTENTIAL FOR EXPOSURE TO CADMIUM OR NICKEL FUMES OR DUSTS OCCURS (BREACHED BAT

TERY CASE) REMOVE TO FRESH AIR
IMMEDIATELY AND SEEK MEDICAL ATTENTION. EYES: IF CONTENTS FROM AN
OPENED B ATTERY COMES INTO CONTACT WITH EYES, IMMEDIATELY FLUSH
EYES THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL
ATTENTION. SKIN: IF INTERNAL CELL MATERIALS OF AN OPENED BATTERY
COMES INTO CONT ACT WITH SKIN, IMMEDIATELY FLUSH WITH WATER FOR 15
MINUTES. SWALLOWING: DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL
ATTENTION.

==========		Fire Figh	
ting Measures	========	======	===

Extinguishing Media: ANY CLASS OF EXTINGUISHING MEDIUM MAY BE USED ON THE BATTERIES OR THEIR PACKING MATERIAL.

Fire Fighting Procedures: EXPOSURE TO TEMPERATURES OF ABOVE 212F CAN CAUSE EVAPORATION OF THE LIQUID CONTENT OF THE POTASSIUM HYDROXIDE ELECTROLYTE RESULTING IN THE RUPTURE OF THE CELLS. POTENTIAL FOR EXPOSURE TO CADMIUM FUMES DURING FIRE; USE SELF-CONTAINED BREATHING APPARATUS.

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

Spill Release Procedures:SPILL AND LEAKS ARE UNLIKELY BECAUSE CELLS ARE CONTAINED IN AN HERMETICALLY SEALED CASE. IF BATTERY CASE IS BREACHED, WEAR PROTECTIVE CLOTHING THAT IS IMPERVIOUS TO CAUSTIC MATERIALS AND ABSORB OR PA CK SPILL RESIDUES IN INERT MATERIALS. PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL.

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

Handling and Storage Precautions:STORE IN COOL (~31F TO 95F) PLACE, BUT PREVEN

T CONDENSATION ON CELL OR BATTERY TERMINALS. AVOID BREAKING, CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INTEGRITY OF THE CELL OR BATTERY. ELEVATED TEMP ERATURES CAN RESULT IN SHORTENED BATTERY LIFE. DO NOT OBSTRUCT SAFETY RELEASE VENTS ON BATTERIES.

Other Precautions:CHARGING: THIS BATTERY IS DESIGNED FOR RECHARGING. A LOSS OF VOLTAGE AND CAPACITY OF BATTERIES DUE TO SELF-DISCHARGE DURING PROLONGED STORAGE IS UNAVOIDABLE. CHARGE BATTERY BEFORE USE. OBSERVE THE SPE

CIFIED CHARGE RATE.
====== 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. Supplemental Safety and Health P/N: BKB191205/2. PRODUCT IS A MANUFACTURED ARTICLE AS DESCRIBED IN 29 CFR 1910.1200. THE BATTERY CELL IS CONTAINED IN A HERMETICALLY-SEALED CASE, DESIGNED TO WITHSTAND TEMPERATUR ES AND PRESSURES ENCO UNTERED DURING NORMAL USE. AS A RESULT, DURING NORMAL USE, HAZARDOUS MATERIALS ARE FULLY CONTAINED INSIDE BATTER) CELL.
========== Physical/Chemical Properties ==========
HCC:Z5 Spec Gravity:8.65 CADMIUM Solubility in Water:SOLUBLE (POTASSIUM HYDRO) Appearance and Odor:SEALED BATTERY
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES THE BATTERY CELLS ARE ENCASED IN A NON-REACTIVE CONTAINER; HOWEVER, IF THE CONTAINER IS BREACHED, AVOID CONTACT OF INTERNAL BATTERY COMPONENTS WITH ACIDS, ALDEHYDES, AND CARBAMATE COMPOUNDS. Stability Condition to Avoid:HEAT, OPEN FLAMES, SPARKS, AND MOSITURE. Hazardous Decomposition Products:OXIDES OF CADMIUM AND NICKEL Conditions to Avoid Polymerization:WILL NOT OCCUR.
======= Disposal Considerations ==========
Waste Disposal Methods:RETURN TO SANYO ENERGY CORP. FOR RECYCLE. CONTACT YOUR SANYO REPRESE NTATIVE FOR MORE INFORMATION ON THE EARTH SAVER 2001 RECYCLING PROGRAM. BATTERIES MUST BE HANDLED IN ACCORDANCE WITH APPLICABLE LOCA L, STATE, AND FEDERAL LAWS AND REGULATIONS. DO NOT INCINERATE OR SUBJECT BATTERY CELLS TO TEMPERATUR ES IN EXCESS OF 212F.
========== MSDS Transport Information ===========
Transport Information: A NON-SPILLABLE WET ELECTRIC STORAGE BATTERY IS EXCEPTED FROM ALL OTHER REQUIREMENTS OF THIS SUBCHAPTER IF: (1). THE BATTERY I

S PROTECTED AGAINST SHORT CIRCUIT; (2). FOR BATTERIES
MANUFACTURED AFTER SEPTEMBER 30,1995, THE BATTERY AND THE OUTER
PACKAGING MUST BE PLAINLY AND DURABLY MARKED "NONSPILLABLE" OR:
"NONSPILLABLE BATTERY", AND (3). THE BATTERY MUST BE CAPABLE OF
WITHSTANDING THE FOLLOWING TWO TESTS WITHOUT LEAKAGE OF BATTERY
FLUID FROM THE BATTERY: (1) VIBRATION TEST; (2I) PRESSURE
DIFFERENTIAL TEST. SEE 49 CFR 173.159(D).

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