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SANYO ENERGY USA CORP -- MANGANESE DIOXIDE LITHIUM PRIMARY BATTERIES,HP 1420-0854 -- 6135-01-314-8416

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

Product ID:MANGANESE DIOXIDE LITHIUM PRIMARY BATTERIES, HP 1420-0854

MSDS Date:05/10/1994

FSC:6135

NIIN:01-314-8416

MSDS Number: CFKTG === 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

CAGE:00JU0

=== Contractor Identification ===

Company Name: J.G.B. ENTERPRISES Address: 115 METROPOLITAN DR

Box:209

City:LIVERPOOL

State:NY ZIP:13088 Country:US

Phone:315-451-2770

CAGE:61125

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: MANGANESE DIOXIDE

CAS:131

3-13-9
RTECS #:OP0350000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG MN/M3 CEILING
ACGIH TLV:5 MG MN/M3

Ingred Name:LITHIUM METAL CAS:7439-93-2 RTECS #:OJ5540000 Other REC Limits:NONE RECOMMENDED

Ingred Name:PROPYLENE CARBONATE (PC)

CAS:108-32-7

RTECS #:FF9650000

Other REC Limits: NONE RECOMMENDED

Ingred Name: DIMETHOXYETHANE (DME)

CAS:110-71-4

RTECS #:KI1451000

Other REC Limits: NONE RECOMMENDED

Ingred Name:LITHIUM PERCHLORATE

CAS:7791-03-9

Other REC Limits: NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS UNKNOWN.

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:THESE CHEMICALS ARE CONTAINED IN A

SEALED CAN. RISK OF EXPOSURE OCCURS ONLY IF BATTERY IS

MECHANICALLY/ELECTRICALLY ABUSED. ACUTE & CHRONIC- ELECTROLYTE

(DME) IS SLIGHTLY TO MODERATELY TOXIC. MAY CAUS E EYE, SKIN &

MUCOUS MEMBRANES IRRITATION

Explanation of Carcinogenicity:NONE
Effects of Overexposure:NONE. IF BROKEN OR IN FIRE: IRRITATION
Medical Cond Aggravated by Exposure:NONE

First Aid:IF BROKEN/FIRE: GET MEDICAL HELP IF SYMPTOMS PERSIST.
INHALED:MOVE TO FRESH AIR. EYES:IMMEDIATELY FLUSH WITH WATER FOR 15
MINUTES. HOLD EYELIDS OPEN. SKIN:WASH WITH WATER. ORAL:IF
BATTERY/OPEN BATTERY IS INGESTED, DO NOT INDUCE VOMITING ORGIVE
FOOD/DRINK. SEEK

IMMEDIATE MEDICAL ATTENTION. CALL NATIONAL BATTERY

INGESTION HOTLINE FOR ADVICE & FOLLOWUP (202-625-3333).
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Flash Point:NONE Lower Limits:NOT RELEVANT Upper Limits:NOT RELEVANT Extinguishing Media:FOR BURNING BATTERIES IN BULK QUANTITIES OF UNPACKED CELLS, USE CLASS D EXTINGUISHERS; LITH-X, POWDERED
GRAPHITE Fire Fighting Procedures:NO WATER, SAND, CARBON DIOXIDE, SODA-ACID OR HALOGENATED EXTINGUISHERS. WEAR N IOSH-APPROVED SELF CONTAINED
BREATHING APPARATUS & FULL PROTECTIVE CLOTHING. Unusual Fire/Explosion Hazard:HAZARDOUS DECOMPOSITION PRODUCTS MAY BE FORMED.
========= Accidental Release Measures ==========
Spill Release Procedures:IF BROKEN, ALLOW BATTERIES TO COOL AND VAPORS TO DISSIPATE. AVOID EYES AND SKIN CONTACT. REMOVE SPILLED LIQUID WITH INERT ABSORBENT AND INCINERATE. Neutralizing Agent:NOT RELEVANT
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Handling and Storage Precautions:STORE IN COOL, DRY PLACE. BATTERIES MAY EXPLODE OR CAUSE BURNS, IF DISASSEMBLED, CRUSHED, RECHARGED, EXPOSED TO FIRE OR HIGH TEMPERATURE. Other Precautions:DO NOT INCINERATE. DO NOT TOUCH BROKEN OR LEAKING BATTERIES. AVOID MECHANICAL OR ELECTRICAL ABUSE. DO NOT ATTEMPT TO RECHARGE. AVOID SHORT CIRCUITS. DO NOT CARRY BATTERIES LOOSE IN POCKET OR BAG. KEEP BATTERIES AWAY FROM SMALL CHILDREN.
====== Exposure Controls/Per sonal Protection ========
Respiratory Protection:NOT NECESSARY UNDER NORMAL CONDITIONS OF USE. WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WHEN LARGE NUMBERS OF CELLS ARE INVOLVED IN A FIRE. Ventilation:ADEQUATE
Protective Gloves:RUBBER FOR LEAKERS Eye Protection:GOGGLES FOR LEAKERS Other Protective Equipment:EYE BATH, WASHING FACILITIES Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING,

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RINKING/SMOKING. Supplemental Safety and Health
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HCC:N1 NRC/State Lic Num:NOT RELEVANT Spec Gravity:NOT RELEVANT Viscosity:NOT RELEVANT Evaporation Rate & DESCRIPTION RELEVANT Solubility in Water:NOT RELEVANT Appearance and Odor:BATTERY - ODORLESS
========= Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES WATER WITH INTERNAL CONTNETS Stability Condition to Avoid:FIRE, HEAT, MOISTURE, RECHARGE, DISASSEMBLE

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. OPEN CELLS SHOULD BE TREATED AS HAZARDOUS WASTE.

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