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SANYO ENERGY CORP, BATTERY DIV -- MANGANESE DIOXIDE LITHIUM PRIMARY BATTERIES -- 6135-01-205-5965

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

Product ID:MANGANESE DIOXIDE LITHIUM PRIMARY BATTERIES

MSDS Date:05/10/1994

FSC:6135

NIIN:01-205-5965

MSDS Number: BKYVF === Responsible Party ===

Company Name: SANYO ENERGY CORP, BATTERY DIV

Address:200 RISER RD City:LITTLE FERRY

State:NJ ZIP:07643 Country:US

Info P

hone Num:201-641-2333

Emergency Phone Num:619-661-6620

CAGE:0C8Z7

=== Contractor Identification ===

Company Name: SANYO ENERGY CORP, BATTERY DIV

Address:200 RISER RD Box:City:LITTLE FERRY

State:NJ ZIP:07643 Country:US

Phone:201-641-2333

CAGE:0C8Z7

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

Ingred Name: MANGANESE DIOXIDE

CAS:1313-13-9

RTECS #:OP0350000

Other REC Limits:NONE RECOMME 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 RECOMME

Ingred Name:1,3-DIOXALAN-2-0NE (ETHYLENE CARBONATE)

CAS:96-49-1

RTECS #:FF9550000

Other REC Limits: NONE RECOMME

Ingred Name: DIMETHOXYETHANE

CAS:110-71-4

RTECS #:KI1451000

Other REC Limits: NONE RECOMME

Ingred Name:4-ETHYL-1,3-DIOXOLAN-2-ONE (BUTYLENE CARBONATE)

CAS:4437-85-8 RTECS #:JI4582000

Other REC Limits: NONE RECOMMENDED

Ingred Name:LITHIUM TRIFLUORO METHANE SULFONATE

Other REC Limits: NONE RECOMMENDED

====== Hazards Identif

ication ==========

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

Health Hazards Acute and Chronic: CHEMICALS ARE IN A SEALED CAN.

EXPOSURE OCCURS WHEN BATTERY HAS BEEN ABUSED. DME IS SLIGHTLY TO MODERATELY TOXIC. EC & BC ARE IRRITATING TO EYES. LICF3SO3 IS IRRITATING TO SKIN, EYES & MUCOUS MEMBRAN ES. CONTACT OF

ELECTROLYTE & EXTRUDED LITHIUM W/SKIN & EYES SHOULD BE AVOIDED.

**Explanation of Carcinogenicit** 

y:MFR GAVE THE ABOVE LISTINGS ON THE MSDS BUT NO OTHER COMMENTS WERE RECORDED.

Effects of Overexposure: DMD MAY BE A REPRODUCTIVE HAZARD. LITHIUM CAN CAUSE THERMAL & CHEMICAL BURNS ON CONTACT W/SKIN.

Medical Cond Aggravated by Exposure: AN ACUTE EXPOSURE WILL GENERALLY NOT AGGRAVATE ANY MEDICAL CONDITION.

First Aid:FOR CONTACT OF BATTERY INTERNALS WITH-SKIN:FLUSH IMMEDIATELY W/WATER. -EYES:FLUSH WITH COPIOUS AMO

UNTS OF WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. DO NOT INHALE VENTED MATE RIAL.
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Flash Point:NONE Extinguishing Media:WATER Fire Fighting Procedures:IN CASE OF FIRE IN AN ADJACENT AREA, USE WATER, CO2 OR SRY CHEMICAL EXTINGUISHERS IF CELL ARE PACKED IN THEIR ORIGIONAL CONTAINERS SINCE THE FUEL IS PAPER. Unusual Fire/Explosion Hazard:FOR BULK QUANTITIES OF UNPACKAGED CELL US
LITH -X (GRAPHITE BASE). IN THIS CASE USE NO WATER.
========= Accidental Release Measures ==========
Spill Release Procedures:THE PREFERRED RESPONSE IS TO LEAVE AREA AND ALLOW BATTERIES TO COOL AND VAPORS TO DISSIPATE. AVOID SKIN & EYE CONTACT OR INHALATION OF VAPORS. REMOVE SPILLED LIQUID W/ABSORBENT & INCINERATE.  Neutralizing Agent:MFR GAVE NO INFORMATION ON MSDS.
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Handling and Storage Precautions: AVOID MECHANICAL OR ELECTRICAL ABUSE. Other Precautions:BATTERIES MAY EXPLODE OR CAUSE BURN. IF DISASSEMBLED, CRUSHED, RECHARGED OR EXPOSED TO FIRE OR HIGH TEMPERATURE. DO NOT SHORT NOR INSTALL W/INCORRECT POLARITY.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:NOT NESCESSARY UNDER CONDITIONS OF NORMAL USE. Ventilation:NOT NESCESSARY UNDER CONDITIONS OF NORMAL USE. Protective Gloves:NOT NESCESSARY UNDER CONDITIONS OF NORMA Eye Protection:NOT NESCESSARY UNDER CONDITIONS OF NORMA
Other Protective Equipment: NOT NESCESSARY UNDER CONDITIONS OF NORMAL USE.
Work Hygienic Practices:MFR:? HMIS:USE GOOD INDUSTRIAL HYGIENE PRACTICE. IF HANDLING LEAKING BATTERIES USE STRICT CHEMICAL HYGIENE PRACTICE.
Supplemental Safety and Health AVOID ALL CONTACT W/BATTERY INTERNALS. WASH THOROUGHLY AFTER HANDLING.
========== Physical/Chemical Properties ==========
HCC:F8 NRC/State Lic Num:NONE pH:UNKNON

pH:UNKNON Appearance and Odor:S

EALED NON-RECHAGABLE BATTERY.
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES MFR GAVE NO INFORMATION ON MSDS. Stability Condition to Avoid:DO NOT HEAT, DIASSEMBLE OR RECHARGE. Conditions to Avoid Polymerization:WILL NOT OCCUR.
======= Disposal Considerations ==========
Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH APPROPRIATE

## Disc

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