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SANYO ENERGY USA CORP -- MANGANESE DIOXIDE LITHIUM PRIMARY BATTERIES 6135-01-205-5965

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

Product ID:MANGANESE DIOXIDE LITHIUM PRIMARY BATTERIES

MSDS Date:01/01/1999

FSC:6135

NIIN:01-205-5965

MSDS Number: BZQYR === Responsible Party ===

Company Name: SANYO ENERGY USA CORP

Address:2001 SANYO AVE

City:SAN DIEGO

State:CA ZIP:92173 Country:US

Info Phone Num:619-661-66

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Emergency Phone Num:619-661-6620

CAGE:00JU0

=== Contractor Identification ===

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: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

CAS:7439-93-2

RTECS #:OJ5540000

Other REC L

imits:NONE RECOMME

Ingred Name:PROPYLENE CARBONATE (PC)

CAS:108-32-7

RTECS #:FF9650000

Other REC Limits: NONE RECOMME

Ingred Name: DIMETHOXYETHANE (DME)

CAS:110-71-4

RTECS #:KI1451000

Other REC Limits: NONE RECOMME

Ingred Name:LITHIUM PERCHLORATE

CAS:7791-03-9

Fraction by Wt: UNKNOW

Other REC Limits: NONE RECOMMENDED

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

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

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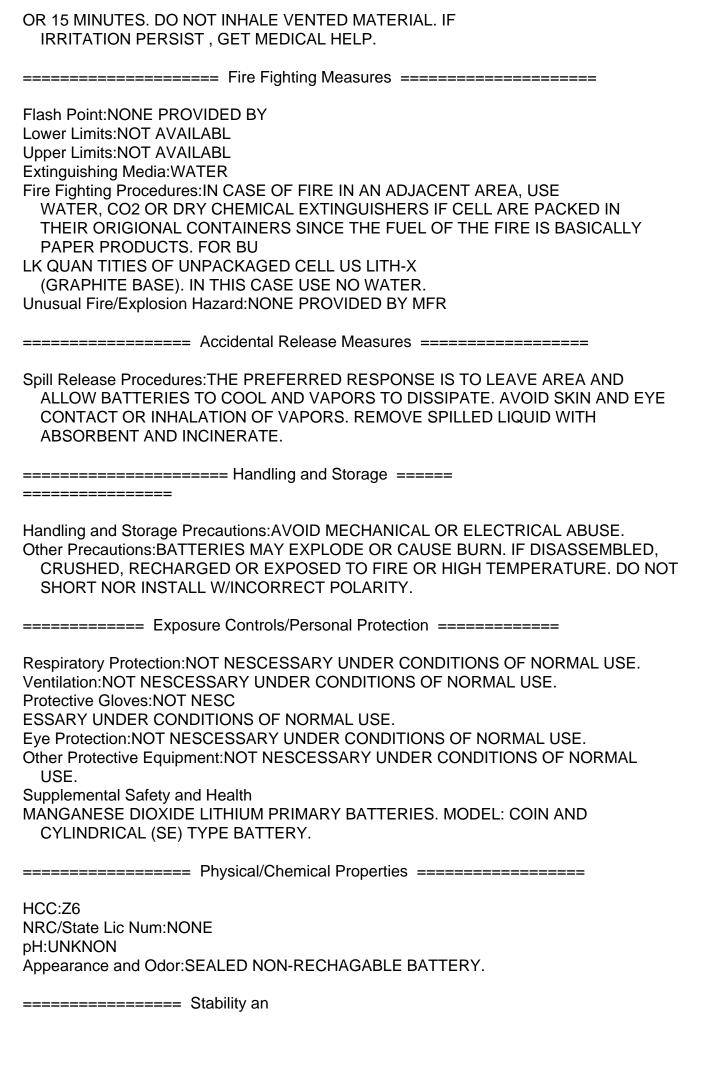
ealth Hazards Acute and Chronic:THESE CHEMICALS ARE CONTAINED IN A SEALED CAN. RISK OF EXPOSURE OCCURS ONLY IF THE BATTERY IS MECHANICALLY OR ELECTRICALLY ABUSED. THE MOST LIKELY RISK IS ACUTE EXPOSURE WHEN A CELL VENTS. DME IS BELI EVED TO BE SLIGHTLY TO MODERATELY TOXIC, AND PROPYLENE CARBONATE IS CONSIDERED TO BE NON-TOXIC BUT MODERATELY IRRITATING TO THE EYES. CIC10, IS IRRITATING TO SKIN, EYES, AND MUCOUS MEMBRANES. CONTACT OF ELECTROLYTE AND EXTRUDED LITHIUM WI

TH SKIN AND EYES SHOULD BE AVOIDED.

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

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

First Aid:IN CASE OF SKIN CONTACT WITH CONTENTS OF BATTERY, FLUSH IMMEDIATELY WITH WATER. FOR EYE CONTACT, FLUSH WITH COPIOUS AMOUNT OF WATER F



Stability Indicator/Materials to Avoid:YES
NONE PROVIDED BY MFR
Stability Condition to Avoid: DO NOT HEAT, DIASSEMBLE OR RECHARGE.
Conditions to Avoid Polymerization: WILL NOT OCCUR.

d Reactivity Data ========

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH APPROPRIATE REGULATIONS. OPEN CELLS SHOULD BE TREATED AS HAZARDOUS WASTE.

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