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SANYO BATTERIES/SANYO ENERGY -- MANGANESE DIOXIDE LITHIUM PRIMARY BATTERIES (SEE SUPPL DATA) -- 6135-01-454-9408

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

Product ID:MANGANESE DIOXIDE LITHIUM PRIMARY BATTERIES (SEE SUPPL DATA)

MSDS Date:01/01/1999

FSC:6135

NIIN:01-454-9408

Status Code:A

MSDS Number: CLQNP === Responsible Party ===

Company Name: SANYO BATTERIES/SANYO ENERGY

Address: 2055 SANYO AVE

City:SAN DIEGO State:CA

ZIP:92173 Country:US

Info Phone Num:619-661-4888

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

Company Name:TNR TECHNICAL INC Address:301 CENTRAL PARK DR

Box:City:SANFORD

State:FL ZIP:32771 Country:US

Phone:407-321-3011

CAGE:1HJ92

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

Ingred

Name:DIMETHOXYETHANE (DME) CAS:110-71-4

RTECS #:KI1451000

Ingred Name:LITHIUM PERCHLORATE

CAS:7791-03-9

Ingred Name: MANGANESE DIOXIDE

CAS:1313-13-9

RTECS #:OP0350000 OSHA PEL:C5 MG/M3 ACGIH TLV:5 MG/M3

Ingred Name:LITHIUM

CAS:7439-93-2

RTECS #:OJ5540000

Ingred Name: PROPYLENE CARBONATE

CAS:108-32-7

RTECS #:FF9650000

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

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

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Health 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. LIC104 IS IRRITATING TO SKIN, EYES AND MUCOUS MEMBRANES. CONTACT OF ELECTROLYTE AND EXTRUDED LITHIUM

WITH SKIN AND EYES SHOULD BE AVOIDED.

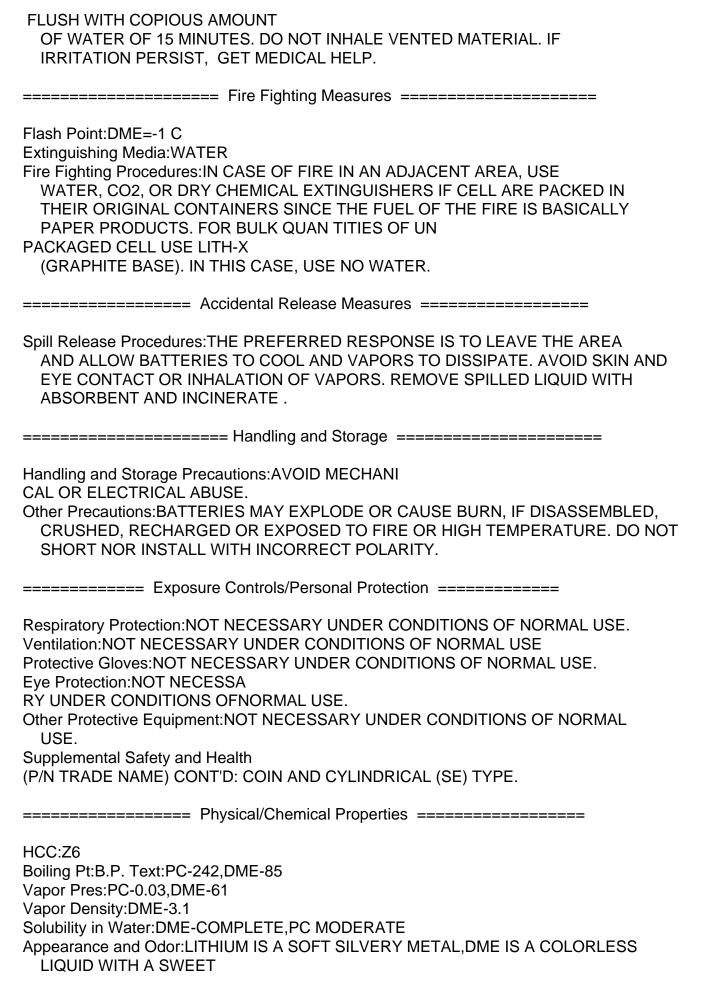
Explanation of Carcinogenicity:NONE

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

Medical Cond Aggravated by Exposure: AN ACUTE EXPOSURE WILL NOT

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

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



ODOR.
========== Stability and Reactivity Data ===========
Stability Indicator/Materials to Avoid:YES Stability Condition to Avoid:STABLE. DO NOT HEAT, DISASSEMBLE, OR RECHARGE. Conditions to Avoid Polymerization:WILL NOT OCCUR.
========= Disposal Considerations =============
Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH APPROPRIATE REGULATIONS. OPEN CELLS SHOULD BE TREATED AS HAZARDOUS WASTES.
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Transport Information:DOT DESCRIPTION (US ONLY): PROPER SHIPPING NAME: NITROUS OXIDE. HAZARD CLASS: 2.2 (NONFLAMMABLE). IDENTIFICATION NUMBER: UN1070. REPORTABLE QUANTITIES: NOT APPLICABLE. LABELING: NONFLAMMABLE GAS, OXID IZER. ADR/RID (EU ONLY): CLASS 2, 2 O. SPECIAL PRECUTIONS: CYLINDERS SHOULD BE TRANSPORTED IN A SECURE UPRIGHT POSITION IN A WELL VENTILATED TRUCK.
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SARA Title III Inf ormation:SARA: THE THREASHOLD PLANNING QUANTITY FOR MATERIAL IS 10,000 LBS. Federal Regulatory Information:TSCA; MATERIAL IS LISTED IN TSCA INVENTORY. OSHA PROCESS AFETY MANAGEMENT: MATERIALS ARE NOT LISTED
IN APPENDIX A OF 29 CFR 1910.119 AS HIGHLY HAZARDOUS CHEMICALS. State Regulatory Information:NO DATA PROVIDED BY MANUFACTURER
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