

Trade Name: CR2032 SANYO LITHIUM BATTERY COIN CELL TYPE 2CR5

MSDS Date: 11/17/1987
Tech Review: 08/23/1991

General Information

Company: SANYO ENERGY CORPORATION
Address: 600 SUPREME DRIVE

City: BENSENVILLE
State: IL
Zip: 60106
Info Phone Number: (312) 595-5600
Emergency Phone Number: (312) 595-5600

Other company information:

Name: SANYO ENERGY CORP, BATTERY DIV
Address: 200 RISER RD
City: LITTLE FERRY
State: NJ
Zip: 07643

Other company information:

Name: SANYO ENERGY CORP, BATTERY DIV
Address: 200 RISER RD
City: LITTLE FERRY
State: NJ
Zip: 07643
Country: US
Info Phone Number: 201-641-2333

Ingredients

Cas: 1313-13-9
RTECS #: OP0350000

Copyright 2005 Stericycle, Inc.

Name: **MANGANESE DIOXIDE**

% Text: **25-35%**

OSHA PEL: **5 MG/CUM**

ACGIH TLV: **5 MG/CUM (MN)**

Cas: **108-32-7**

RTECS #: **FF9650000**

Name: **1,3-DIOXOLAN-2-ONE, 4-METHYL-DIPROPYLENE CARBONATE,
PROPYLENE CARBONATE, CARBONIC ACID, CYCLIC PROPYLENE ESTER**

% Text: **2-8%**

Cas: **100-79-8**

RTECS #: **JI0400000**

Name: **DIOXOLANE**

% Text: **2-6%**

Cas: **7439-93-2**

RTECS #: **OJ5540000**

Name: **LITHIUM**

% Text: **2-4%**

Cas: **7719-09-7**

RTECS #: **XM5150000**

Name: **THIONYL CHLORIDE**

Other REC Limits: **1 PPM**

OSHA PEL: **C 1 PPM**

ACGIH TLV: **C 1 PPM; 9192**

Name: **DIMETHOXYETHANE**

% Text: **<5%**

Health Hazards Data

Copyright 2005 Stericycle, Inc.

Skin: **YES**

Ingestion: **YES**

Health Hazards Acute And Chronic: **SKIN/EYES: CHEMICAL BURNS, IRRITATION, & HARMFUL. INGESTION: HARMFUL.**

Explanation Of Carcinogenicity: **NONE**

Signs And Symptoms Of Overexposure: **SKIN/EYES: CHEMICAL BURNS, IRRITATION, & HARMFUL. INGESTION: HARMFUL.**

First Aid: **SKIN: WASH W/SOAP & WATER. EYES: FLUSH THOROUGHLY W/WATER & CONTINUE FLUSHING FOR AT LEAST 15 MINS. INGESTION: OBTAIN MEDICAL ATTENTION IN ALL CASES.**

Spill Release Procedures: **WEAR PROTECTIVE EQUIPMENT & VENTILATE AREA. NEUTRALIZE W/LIME OR OTHER BASIC SUBSTANCES.**

Neutralizing Agent: **LIME OR OTHER BASIC SUBSTANCES**

Waste Disposal Methods: **DON'T RECHARGE, WHICH CAUSES LEAKAGE/EXPLOSION. BURY IN LANDFILL ACCORDING TO APPROPRIATE FEDERAL/STATE/LOCAL REGS AS HAZARDOUS WASTE. DON'T PUNCTURE/MUTILATE/INCINERATE. SUBMERSE EXPOSED LITHIUM FOIL IN MINERAL OIL IN PLASTIC BAGS TO STOP OXIDATION.**

Handling And Storage Precautions: **AVOID FUME INHALATION IN FIRE/CONTACT W/SKIN/EYE/INGESTION/PROLONGED SHORT CIRCUIT/METAL COVERED TABLE/BELT/OPENING/SEAL DAMAGE. STORE IN COOL PLACE.**

Other Precautions: **PREVENT CONDENSATION. AVOID HIGH TEMPS, WHICH RESULTS IN SHORTENED BATTERY LIFE. DON'T JUMBLE BATTERY IN BULK CONTAINER. APPLY INSULATING MATERIAL TO ASSEMBLY WORK SURFACE. SOLDER/WELD W/PRECAUTION. STORE IN CLIMATE CONTROLLED WAREHOUSE.**

Fire and Explosion Hazard Information

Extinguishing Media: **WATER/CO2/DRY CHEMICAL. LITHIUM FIRE: LITH-X (GRAPHITE BASE)/DON'T USE WATER/CO2/DRY CHEMICAL/FOAM/HALOGEN EXTINGUISHER.**

Fire Fighting Procedures: **WEAR SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING IN ADJACENT AREA. USE WATER TO COOL BATTERY ONLY IF LITHIUM FOIL ISN'T EXPOSED.**

Unusual Fire/Explosion Hazard: **BATTERY RUPTURES AT HIGH TEMPS. RECHARGING OF BATTERY CAUSES AN EXPLOSION. INCINERATION MAY VAPORIZE/VENT THE LIQUID ELECTROLYTE/CAUSE CELL TO RUPTURE.**

Control Measures

Respiratory Protection: **NOT NECESSARY UNDER CONDITIONS OF NORMAL USE.**

Ventilation: **NOT NECESSARY UNDER CONDITIONS OF NORMAL USE.**

Protective Gloves: **AS REQUIRED.**

Eye Protection: **AS REQUIRED.**

Supplemental Safety and Health: **THIONYL CHLORIDE IS CORROSIVE TO METALS & PLASTICS.**

Physical Chemical Properties

B. P. Text: **168.8F**

Percent Volatiles by Volume:

Reactivity Data

Stability Indicator: **YES**

Stability Condition To Avoid: **ELEVATED TEMPERATURES >212F**

Materials To Avoid: **WATER IN ANY FORM, CONDUCTIVE MATERIALS, & CORROSIVE COMPOUNDS**

Hazardous Decomposition Products: **CAUSTIC SMOKE OF LITHIUM OXIDE, HYDROGEN, SULFUR DIOXIDE GAS, & HYDROGEN CHLORIDE**