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SANYO ENERGY (USA) CORP. -- MANGANESE DIOXIDE LITHIUM BATTERY, MODEL CR2430 - 6135-01-320-4815

Product ID:MANGANESE DIOXIDE LITHIUM BATTERY,MODEL CR2430 MSDS Date:10/22/1991 FSC:6135 NIIN:01-320-4815 MSDS Number: BTGLV === Responsible Party === Company Name: SANYO ENERGY (USA) CORP. Address:2001 SANYO AVE. **City:SAN DIEGO** State:CA ZIP:92173 Country:US Info Phone N um:619-661-6620 Emergency Phone Num:619-661-6620 CAGE:GO432 === Contractor Identification === Company Name: SANYO ENERGY (USA) CORP Address:2001 SANYO AVE **City:SAN DIEGO** State:CA ZIP:92173-5000 Country:US Phone:619-661-6620 CAGE:GO432 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

Ingred Name:MANGANESE DIOXIDE (AS MANGANESE) CAS :1313-13-9 RTECS #:OP0350000 Other REC Limits:NONE RECOMME OSHA PEL:C, 5 MG/M3 ACGIH TLV:5 MG/M3 DUST/1 FUME

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

Ingred Name:PROPYLENE CARBONATE (CYCLIC 1,2 PROPYLENE CARBONATE) CAS:108-32-7 RTECS #:FF9650000 Other REC Limits:NONE RECOMME

Ingred Name:DIMETHOXYETHANE CAS:110-71-4 RTECS #:KI1451000 Other REC Limits:NONE RECOMME

Ingred Name:LITHIUM PERCHORATE CAS:7791-03-9 Other REC Limits:NONE RECOMME

Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:THE HAZARDOUS INGREDIENTS ARE IN A SEALED CAN.EXPOSURE OCCURS WHEN BATTERY HAS BEEN ABUSED.SKIN:INGRED3 MAY CAUSE IRRITATION.INGRED3 IS MODERATELY TOXIC.LITHIUM AND ELECTROLYTE CAN CAUSE BURNS.INGEST: HARMFUL IF SWALLOWED.INHAL:MIST OR HEATED VAPORS MAY BE HARMFUL.EYES:MAY CAUSE

IRRITATION OR BURNS.

Explanation of Carcinogenicity:DIMETHOXYETHANE MAY BE A REPORDUCTIVE HAZARD.

Effects of Overexposure:SKIN:BURNS.

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

First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH WATER.EYES:FLUSH WITH WATER FOR 15 MINUTES.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.ING

EST:DO NOT INDUCE VOMITING.GET
PROMP T QUALIFIED MEDICAL ATTENTION.**IF IRRITATION PERSISTS,GET
MEDICAL HELP**

Flash Point:NONE

Extinguishing Media:WATER,CARBON DIOXIDE,DRY CHEMICAL.FOR BULK QUANTITIES,USE LITH-X(GRAPHITE BASE) EXTINGUISHANT,AND NO WATER. Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard: FIRE CONDITIONS MAY EVOLVE TOX IC FUMES.

Spill Release Procedures:PREFERRED RESPONSE:LEAVE AREA AND ALLOW BATTERIES TO COOL AND VAPORS TO DISSIPATE.SOAK UP SPILLED LIQUID WITH A NON-COMBUSTIBLE INERT ABSORBANT.PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL.

Neutralizing Agent:NOT REPORTED.

Handling and Storage Precautions: AVOID MECHANICAL OR ELECTRICAL ABUSE. Other Precautions :DO NOT INHALE VENTED MATERIALS.

Respiratory Protection:NOT NESCESSARY IN NORMAL SERVICE.USE A SELF-CONTAINED BREATHING APPARATUS IN FIRE CONDITIONS. Ventilation:NOT NESCESSARY IN NORMAL SERVICE.

Protective Gloves: PVC FOR LEAKERS.

Eye Protection:SAFETY GLASSES.

Other Protective Equipment: PROVIDE LOCAL EYE WASH AND SAFETY SHOWER. Work Hygienic Practices: WASH HANDS.SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAUNDER WORK C

LOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK

AREA.

Supplemental Safety and Health

LITHIUM=0.08G/CELL.HMIS SPOKE TO MR.FUKUTA,AT SANYO ENERGY.HE INFORMED US THAT THIS BATTERY HAS A SOLID CATHODE.

HCC:Z6

Solubility in Water:NEGLIGIBLE Appearance and Odor:SEALED NON-RECHAGABLE BATTERY.

Stability Indicator/Materials to Avoid:YES NONE SPECIFIED BY MANUF

ACTURER. Stability Condition to Avoid:HEAT,DIASSEMBLY,RECHARGE. Hazardous Decomposition Products:NOT REPORTED.

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

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