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RACAL HEALTH AND SAFETY INC -- HIGH RATE LITHIUM MANGANESE DIOXIDE CELL/BATTERIES,520-03-94 -- 6135-01-426-8282

Product ID: HIGH RATE LITHIUM MANGANESE DIOXIDE CELL/BATTERIES, 520-03-94 MSDS Date:02/07/1995 FSC:6135 NIIN:01-426-8282 MSDS Number: CBRFS === Responsible Party === Company Name: RACAL HEALTH AND SAFETY INC Address:7305 EXECUTIVE WAY **City:FREDERICK** State :MD ZIP:21704-8368 Country:US Info Phone Num:301-695-8200 Emergency Phone Num:301-695-8200/800-682-9500 CAGE:41863 === Contractor Identification === Company Name: RACAL HEALTH AND SAFETY INC Address:7305 EXECUTIVE WAY Box:City:FREDERICK State:MD ZIP:21701 Country:US Phone:301-695-8200 CAGE:41863 Ingred Name:LITHIUM METAL

CAS:7439-93-2 RTECS #:OJ5540000 Other REC Limits:NONE RECOMMENDED

Ingred Name: MANGANESE DIOXIDE CAS: 1313-1

3-9 RTECS #:OP0350000 Other REC Limits:NONE RECOMMENDED OSHA PEL:5 MG MN/M3 CEILING ACGIH TLV:5 MG MN/M3

Ingred Name:PROPYLENE CARBONATE CAS:108-32-7 RTECS #:FF9650000 Other REC Limits:NONE RECOMMENDED

Ingred Name:DIMETHOXYETHANE (1,2) CAS:110-71-4 RTECS #:KI1451000 Other REC Limits:NONE RECOMMENDED

Ingred Name:TETRAHYDROFURAN (CERCLA) CAS:109-99-9 RTECS #:LU5950000 Other REC Limits:NONE RECOMMENDED OSHA PEL:200 PPM ACGIH TLV:200 PPM/250STEL;9596 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ing red Name:LITHIUM PERCHLORATE CAS:7791-03-9 Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:NOT RELEVANT Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:RISK OF EXPOSURE OCCURS ONLY IF CELL IS MECHANICALLY, PHYSICALLY/ELECTRICALLY ABUSED. TARGET ORGANS:EYE, SKIN, LUNG. ACUTE- CONTACT WITH AN OPEN BATTERY WOULD BE HARMFUL.

CORROSIVE. HARMFUL IF INGESTE D/INHALED/ABSORBED THROUGH SKIN. MAY CAUSE CNS EFFECTS. FUMES MAY IRRITATE EYES, SKIN & RESPIRATORY TRACT. CHRONIC- UNK.

Explanation of Carcinogenicity:NONE Effects of Overexposure:RISK OF EXPOSURE OCCURS ONLY IF CELL IS MECHANICALLY, PHYSICALLY OR ELECTRICALLY ABUSED. IF CELL IS LEAKING/IN FIRE: SEVERE IRRITATION, TEARING, DIZZINESS, HEADACHE, NAUSEA

Medical Cond Aggravated by Exposure:NONE KNOWN

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH AIR. CALL PHYSICIAN. EYES:FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SEE PHYSICIAN. SKIN:WASH WITH SOAP & WATER. ORAL:IF BATTERY/ OPEN BATTERY IS INGESTED, DO NOT INDUCEVOMITING OR GIVE FOOD/DRINK. SEEK IMMEDIATE MEDICAL ATTENTION. CALL NATIONAL BATTERY INGESTION HOTLINE FOR ADVICE & FOLLOWUP (202-625-3333).

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Flash Point:NOT RELEVANT

Extinguishing Media:USE A DRY POWDER EXTINGUISHER BASED ON GRAPHITE (LITH-X) OR OTHER SUITABLE EXTINGUISHERS DESIGNED FOR ALKALI METAL FIRES

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN THE POSITIVE PRESSURE MODE.

Spill Release Procedures: IF CELL IS PUNCTURED, VENTILATE AREA WELL. WEAR EYE AND SKIN PROTECTIO

N. RESPIRATORY PROTECTION MAY BE

NECESSARY IN CONFINED SPACES. ABSORB LIQUID WITH SUITABLE MATERIAL SUCH AS SAND OR CLAY. TRANSFER TO CONTAINER FOR LATER DISPOSAL. Neutralizing Agent:NOT RELEVANT

Handling and Storage Precautions:STORE IN ORIGINAL CONTAINERS. AVOID TEMPERATURES ABOVE 77F. NEVER CUT INTO CELL. DO NOT USE IN AIRTIGHT CONTAINERS.

Other Precautions:DO NOT INCINERATE. DO NOT TOUCH BROKEN OR LEAKING BATTERIES. AVOID MECHANICAL OR ELECTRICAL ABUSE. DO NOT ATTEMPT TO RECHARGE. AVOID SHORT CIRCUITS. DO NOT CARRY BATTERIES LOOSE IN POCKET OR BAG. KEEP BATTERIES AWAY FROM SMALL CHILDREN.

Respiratory Protection: USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS WHEN CELLS ARE INVOLVED IN A FIRE OR LEAKING IN CONFINED SPACES. Ventilation: ADEQUATE Protective Gloves: NEOPRENE, RUBBER IF HANDLING LEAKERS Eye Protection:SAFETY GLASSES WHEN HANDLING LEAKERS Other Protective Equipment:EYE WASH STATION, QUICK DRENCH SHOWER Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

HCC:F8 NRC/State Lic Num:NOT RELEVANT Spec Gravity:NOT RELEVANT Viscosity:NOT RELEVANT Evaporation Rate & amp; Reference:NOT RELEVANT Solubility in Water:NOT RELEVANT Appearance and Odor:SEA LED BATTERY

Stability Indicator/Materials to Avoid:YES Stability Condition to Avoid:EXCESSIVE HEAT, SHORT CIRCUIT, CHARGE OR REVERSE CHARGE Hazardous Decomposition Products:MAY FORM LITHIUM OXIDE, MANGANESE DIOXIDE, CARBON MONOXIDE, CARBON DIOXIDE.

Waste Disposal Methods:DISCHARGED CELLS MAY CONTAIN SIGNIFICANT AMOUNT OF ENERGY AND SHOULD BE HAND

LED WITH CARE. THEY SHOULD BE

ELECTRICALLY ISOLATED AND PACKED FOR DISPOSAL. DO NOT COMPACT. DISPOSE OF IN SANITARY LANDFILL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS.

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