View NSN Online: https://aerobasegroup.com/nsn/6135-00-835-7210

Product ID:ALKALINE MANGANESE DIOXIDE CELL, MN 1300 (D) MSDS Date:06/15/1992 FSC:6135 NIIN:00-835-7210 MSDS Number: BRDJZ === Responsible Party === Company Name: DURACELL INC TECHNICAL SALES & MARKETING GROUP Address: BERKSHIRE INDUSTRIAL PARK BLDG 9 Ci ty:BETHEL State:CT ZIP:06801 Country:US Info Phone Num:800-243-9540/FAX 203-796-4518 Emergency Phone Num:203-796-4654/617-449-7600 CAGE:90303 === Contractor Identification === Company Name: DURACELL INC TECHNICAL SALES AND MARKETING GROUP Address: BERKSHIRE CORPORATE PARK Box:City:BETHEL State:CT ZIP:06801 Country:US Phone:203-796-4000 CAGE:90303 Ingred Name: POTASSIUM HYDROXIDE (SARA III) CAS:1310-58-3 RTECS #:TT2100000 Fract ion by Wt: 8% Other REC Limits:NONE RECOMMENDED OSHA PEL:C, 2 MG/M3 ACGIH TLV:C 2 MG/M3; 9293 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ingred Name: MANGANESE DIOXIDE CAS:1313-13-9 RTECS #:OP0350000 Fraction by Wt: 37% Other REC Limits:NONE RECOMMENDED OSHA PEL:5 MG MN/M3 CEILING ACGIH TLV:5 MG MN/M3 Ingred Name:ZINC (SARA III) CAS:7440-66-6 RTECS #:ZG8600000 Fraction by Wt: 15% Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG ZNO/M3

## y:1000 LBS

LD50 LC50 Mixture:TLV FOR POTASSIUM HYDROXIDE IS 2 MG/M3. Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE AND CHRONIC- RISK OF EXPOSURE OCCURS ONLY IF CELL IS MECHANICALLY, PHYSICALLY OR ELECTRICALLY ABUSED. KOH IS CAUSTIC AND MAY CAUSE SKIN BURNS, SEVERE EYE INJURY. AT ELEVATED TEMPERATURES, ZINC F UMES MAY BE GENERATED WHICH CAN BE HARMFUL IF INHALED.

Effects of Overexposure:RISK OF EXPOSURE OCCURS ONLY IF CELL IS MECHANICALLY, PHYSICALLY OR ELECTRICALLY ABUSED. KOH IS CAUSTIC AND MAY CAUSE SKIN BURNS, SEVERE EYE INJURY. AT ELEVATED TEMPERATURES, METAL FUME SYMPTOMS MAY A PPEAR.

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

First Aid:GET MEDICAL AT

TENTION IMMEDIATELY. EYE/SKIN:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:GET EMERGENCY MEDI CAL ATTENTION.

Flash Point:NONE

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING

AND NIOSH-APPROVED

SELF-CONTAINED BREATHING APPARATUS OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:CELL MAY RELEASE TOXIC ZINC FUMES WHEN EXPOSED TO FIRE.

Spill Release Procedures: BATTERY AND CELL CASES WILL NORMALLY CONTAIN MATERIALS OF CONCERN. USE INDUSTRIAL ABSORBENT TO COLLECT LIQUID POTASSIUM HYDROXIDE. AVOID SKIN AND EYE CONTACT. DO NOT INHALE VAPORS. USE RUBBER GLOVES W

| HEN HANDLING LEAKERS OR INTERNAL PARTS  |
|---|
| OF CELLS.<br>Neutralizing Agent: ACID FOR POTASSIUM HYDROXIDE   |
| ======================================  |
| <ul> <li>Handling and Storage Precautions:STORE AT ROOM TEMPERATURE. AVOID<br/>BREAKING, CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INTEGRITY<br/>OF THE CELL OR BATTERY.</li> <li>Other Precautions:DO NOT TOUCH BROKEN OR LEAKING BATTERIES. AVOID<br/>MECHANICAL OR ELECTRICAL ABUSE. DO NOT ATTEMPT TO RECHARGE. AVOID<br/>SHORT CIRCUITS. DO NOT C</li> <li>ARRY BATTERIES LOOSE IN POCKET OR BAG. KEEP<br/>BATTERIES AWAY FRO M SMALL CHILDREN.</li> </ul>   |
| ======================================  |
| <ul> <li>Respiratory Protection: USE NIOSH APPROVED SELF-CONTAINED BREATHING<br/>APPARATUS WHEN CELLS ARE INVOLVED IN A FIRE.</li> <li>Ventilation: USE ADEQUATE LOCAL EXHAUST VENTILATION WHEN CELLS ARE<br/>INVOLVED IN A FIRE.</li> <li>Protective Gloves: NEOPRENE, LATEX-NITRILE, OR RUBBER</li> <li>Eye Protection: SAFETY GLASSES WHEN HANDLING LEAKERS</li> <li>Other Protective Equipment: EYE WAS</li> <li>H STATION</li> <li>Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND<br/>RECOMMENDED PROCEDURES.</li> <li>Supplemental Safety and Health</li> <li>FORMULA CHANGED. FOR PREVIOUS FORMULATION, SEE PNI A UNDER THE SAME<br/>NSN. THIS MSDS IS FOR PART NUMBERS: MN1300 (D), MN1400 (C), MN1500<br/>(AA), MN2400 (AAA), MN9100 (N), MN908, MN918, MN1604, 5K69, 7K67 A<br/>ND BATTERIES COMPRISED OF THESE CELLS.</li> </ul> |
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| HCC:N1<br>Boiling Pt:B.P. Text:907F ZN<br>Melt<br>/Freeze Pt:M.P/F.P Text:360C KOH<br>Decomp Temp:Decomp Text:NOT KNOWN<br>Vapor Pres:1 @487C ZN<br>Spec Gravity:5.0 (MNO2)<br>Viscosity:NOT RELEVANT<br>Evaporation Rate & amp; Reference:NOT RELEVANT<br>Solubility in Water: 50 % KOH<br>Appearance and Odor:CLEAR LIQUID (KOH), BLACK POWDER (MNO2), GREY<br>POWDER (ZN)  |
| ======================================  |
| Stability Indicator/Materials to Avoid:YES  |

NONE KNOWN Stability Condition to Avoid:OVER-HEATING, RECHARGING, DISASSEMBLING, CRUSHING

## OR INCINERATION

Hazardous Decomposition Products:CELL MAY RELEASE TOXIC ZINC FUMES AND CAUSTIC POTASSIUM HYDROXIDE WHEN HATED.

Waste Disposal Methods: IN SMALL QUANTITIES, CELLS MAY BE DISPOSED OF WITH HOUSEHOLD TRASH. OPEN CELLS IN LARGE QUANTITIES SHOULD BE TREATED AS A HAZARDOUS WASTE. DISPOSE IN ACOORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. DO NOT INCINERATE.

## Disclaime

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