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Product ID: PC915 PROCELL ALKALINE MANGANESE DIOXIDE CELL MSDS Date:09/12/1995 FSC:6135 NIIN:01-327-2092 MSDS Number: CFMTD === Responsible Party === Company Name: DURACELL INC TECHNICAL SALES & MARKETING GROUP Address: BERKSHIRE INDUSTRIAL PARK BLDG 9 City:BETHEL State:CT ZIP:06801 Country:US Info Phone Num:800-243-9540/FAX 203-796-4518 Emergency Phone Num:203-796-4682/203-796-4575 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 (CERCLA) (KOH) CAS:1310-58-3 RTECS #:TT210000 0 Fraction by Wt: 8% Other REC Limits:NONE RECOMMENDED OSHA PEL:C 2 MG/M3 ACGIH TLV:C 2 MG/M3; 9596 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ingred Name: MANGANESE DIOXIDE (MNO2) 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 313) (CERCLA) (ZN) CAS:7440-66-6 RTECS #:ZG8600000 Fraction by Wt: 15% Other REC Limits:NONE RECOMMENDED

EPA Rpt Qtv:1000 LBS

ATER (H2O) CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: 11% Other REC Limits:NONE RECOMMENDED

Ingred Name:CARBON (C) Fraction by Wt: 4% Other REC Limits:NONE RECOMMENDED

Ingred Name:STEEL Fraction by Wt: 18% Other REC Limits:NONE RECOMMENDED

Ingred Name:BRASS Fraction by Wt: 2% Other REC Limits:NONE RECOMMENDED

Ingred Name:PLASTIC Fraction by Wt: 4% Other REC Limits:NONE RECOMMENDED

Ingred Name:PAPER Fraction by Wt: 1% Other REC Limits:NONE RECOMMENDED

Ingred Name:MERCURY (SARA 313) (CE RCLA);BATT DONT CONTAIN ANY INTENTIONALLY ADDED HG.IF ANY PRESENT WOULD BE TRACE QUANT AS CONTAMIN CAS:7439-97-6 RTECS #:OV4550000 Other REC Limits:NONE RECOMMENDED OSHA PEL:C, 0.1 MG/M3; Z-2 ACGIH TLV:S,0.025 MG/M3; A4;96 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Heal th Hazards Acute and Chronic: THESE CHEMS/METALS CONTAINED IN SEALED CAN.POTENTIAL FOR EXPO SHOULDNT EXIST UNLESS BATT LEAKS, IS EXPO TO HIGH TEMPS, IS ACCIDENTALLY SWALLOWED OR IS MECHANICALLY/PHYS/ELECTRICALLY ABUSED.MOST LIKELY R ISK IS ACUTE EXPO WHEN CELL LEAKS.POTASSIUM HYDROXIDE(KOH)CAUSTIC, SKIN CONTACT CAN CAUSE BURNS, EYE CONTACT MAY (SUPPLE) Explanation of Carcinogenicity:PER MSDS:CARCINOGENICITY:NTP/IARC/OSHA:NO. Effects of Overexposure:SKIN & EYE CONTACT W/POTASSI UM HYDROXIDE (KOH) MAY CAUSE CHEMICAL BURNS. Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER. First Aid: IF LEAKAGE FROM CELL CONTACTS SKIN FLUSH IMMED W/WATER.FOR EYE CONTACT FLUSH W/COPIOUS AMTS OF WATER FOR 15MINS & SEE PHYSICIAN @ONCE.IF VAPOR IS INHALED REMOVE TO FRESH AIR. Flash Point:NA Autoignition Temp:Autoignition Te mp Text:NP Lower Limits:NA **Upper Limits:NA** Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE SELF-CONTAINED BREATHING APPARATUS WHEN CELLS ARE INVOLVED IN FIRE. Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER. Spill Release Procedures: AVOI DSKIN/EYE CONTACT. DO NOT INHALE VAPORS. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER. Handling and Storage Precautions: AVOID MECHANICAL OR ELECTRICAL ABUSE.USE NEOPRENE, RUBB, LATEX-NITRILE GLOVES WHEN HDNLG LEAKERS.STORE AT ROOM TEMPERATURE. Other Precautions: DONT ATTEMPT TO RECHARGE. INSTALL CELLS IN ACCORDANCE WITH EQPMT INSTRUCTIONS.DONT DISPO OF IN FIRE.REPLACE ALL BATT IN EQPMT @SAME TIME.DONT MIX BATT SYSTEMS SUCH AS ALKALINE & ZINC CARBON IN SAME EQP MT.DOT CARRY BATT LOOSE IN POCKET/BAG.

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ry Protection:NONE UNDER NORMAL CONDITIONS. Ventilation: SUBSEQUENT TO FIRE PROVIDE AS MUCH VENTILATION AS POSSIBLE. Protective Gloves: NEOPRENE, RUB, LATEX-NITRILE WHEN LEAKING Eye Protection: SAF GLASSES WHEN HNDLG LEAKERS Other Protective Equipment:NONE Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health BPT(C):KOH:1320,MNO2:NA,ZN:907. VAP PRES(MMHG):KOH/MNO2:NA,ZN:1@487C. SOLUBILITY:KOH:50%,MNO2/ZN:0%. SPEC GRAV:KOH:2.0,MNO2:5.0,ZN:7.14. MELT PT(C):KOH:3 60, MNO2:535, ZN:420. HEALTH: CAUSE PERM EYE INJUR Y.POTENTIAL DOESNT EXIST FOR CHRONIC EXPO. MAY EXPLO @EXCESSIVE TEMPS.DISPO SHOULD BE IAW ALL APPLIC FED/STATE/LOC REGS. HCC:N1 Boiling Pt:B.P. Text:SUPPLEMENTA Melt/Freeze Pt:M.P/F.P Text:SUPPLEMENTA Decomp Temp:Decomp Text:NP Vapor Pres:SUPPLEMENT Vapor Density:NA Spec Gravity:SUPPLEMENTAL pH:NP Viscosity:NP Evaporation Rate & amp; Reference:NA Solubility in Water:SUPPL **EMENTAL** Appearance and Odor:KOH:CLEAR LIQ; MNO2:BLACK POWDER; ZN:GRAY POWDER. Percent Volatiles by Volume:NP

Corrosion Rate:NP

Stability Indicator/Materials to Avoid:YES NONE SPECIFIED BY MANUFACTURER. Stability Condition to Avoid:DONT HEAT, DISASSEMBLE, OR RECHARGE. Hazardous Decomposition Products:WHEN HEATED CELLS MAY EMIT VAPORS OF CAUSTIC POTASSIUM HYDROXIDE (KOH).

====== Disposal Considerations =====

Waste Disposal Methods:SPENT/USED BATT SHOULD BE DISPO OF IN SM QUANT W/NORMAL TRASH.DURACELL DOESNT RECOMMENDED THAT SPENT BATT BE ACCUMULATED HOWEVER IF THEY ARE QUANT OF 5 GALLONS/MORE SHOULD BE DISPO OF IN SECURE LANDFI LL.BATT SHOULDNT BE INCINERATED SINCE CELLS(SUPPL)

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