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POWER CONVERSION, INC -- BA-5598, ETERNACELL LITHIUM SDX -- 1290-01-161-3662

Product ID:BA-5598, ETERNACELL LITHIUM SDX MSDS Date:05/09/1996 FSC:1290 NIIN:01-161-3662 MSDS Number: CGMJM === Responsible Party === Company Name: POWER CONVERSION, INC Address:495 BOULEVARD City:ELMWOOD PARK State:NJ ZIP:07407 Country:US Info Phone Num:201-796-4800, EXT 164 Emergency Ph one Num:201-796-4800,800-424-9300(CHEMTREC) CAGE:5G978 === Contractor Identification === Company Name: HAWKER ETERNACELL, INC. Address:495 BOULEVARD Box:City:ELMWOOD PARK State:NJ ZIP:07407-2029 Country:US Phone:201-796-4800 /FAX: 201-796-6243 CAGE:5G978 Company Name: U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMND Box:City:DOVER State:NJ ZIP:07801 Country:US Phone:973-724-4021 CAGE:19200

Ingred Name:SULFUR DIOXIDE (SARA 302

) CAS:7446-09-5 RTECS #:WS4550000 Other REC Limits:NONE RECOMMENDED OSHA PEL:5 PPM ACGIH TLV:2 PPM/5 STEL; 9596

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

Ingred Name:PROPYLENE (SARA 313) CAS:115-07-1 RTECS #:UC6740000 Other REC Limits:NONE RECOMMENDED ACGIH TLV:ASPHYXIANT; 9596

Ingred Name:ACETONITRILE (SARA 313) (CERCLA) CAS:75-05-8 RTECS #:AL7700000 Other REC Limits:NONE RECOMMENDED OSHA PEL:40 PPM ACGIH TLV:40 PPM/60 STEL; 9596 EPA Rpt Qty: 5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:LITHIUM SALTS, MIXTURE Other REC Limits:NONE RECOMMENDED

Ingred Name:STEEL CASING, & NON-HAZARDOUS COMPONENTS Other REC Limits:NONE RECOMMENDED

Ingred Name:TEFLON CAS:9002-84-0 Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3

Ingred Name:CARBON BLACK CAS:1333-86-4 RTECS #:FF5800000 Other REC Limits:NONE RECOMMENDED OSHA PEL:3.5 MG/M3 ACGIH TLV:3.5 MG/M3; 9596

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 Health Hazards Acute and Chronic:RISKS OCCURS IF CELL VENTS OR IS OPENED. ACUTE:ELECTROLYTE IS SEVERE IRRITANT, INTACT LITHIUM IS REACTIVE. CHRONIC: MAY CAUSE DERMATITUS. SOME COMPONENTS HAVE BEEN SHOWN TO BE TERATOGENIC TO ANIMALS. Explanation of Carcinogenicity:NONE Effects of Overexposure:EXPOSURE TO SKIN AND EYES MAY CAUSE IRRITATION. I NHALATION MAY RESULT IN DIFFICULTY BREATHING.
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First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. FLUSH SKIN AREA WITH WATER. GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. GET MEDICAL ATTENT ION.
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Flash Point:N/R,AVOID >185F Extinguishing Media:LITH-X, METAL-X, DRY SAND. Fire Figh ting Procedures:COOL BATTERY WITH EXTINGUISHING MEDIA, REMOVE ADJACENT COMBUSTIBLE MATERIALS, IF SAFE TO DO SO. SCBA REQUIRED. Unusual Fire/Explosion Hazard:DO NOT USE WATER, CELLS CAN REACT WITH WATER VIOLENTLY. CELLS CAN VENT ELECTROLYTE AT TEMP'S >185F. ABOVE 354F LITHIUM MELTS, A SEVERE FIRE/EXPLOSION HAZARD.
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Spill Release Procedures:ALLOW BATTERY TO COOL AND VAPOR TO DISSIPATE. AVOID CONTACT. AVOID INHALAT ION OF VAPORS. REMOVE SPILLED ELECTROLYTE WITH ABSORBANT MATERIAL. WEAR FULL FACE ACID/ORGANIC CARTRIDGE RESPIRATOR. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:PROTECT FROM PHYSICAL DAMAGE. BATTERIES MAY EXPLODE, IGNITE, OR VENT ELECTROLYTE IF CRUSHED, OPENED, PUNCTURED, OR EXPOSED TO TEMP'S ABOVE 185F. Other Precautions:DO NOT SHORT CIRCUIT. DO NOT INSTALL WITH INCORREC

POLARITY, OR ATTEMPT TO RECHARGE. DO NOT INCINERATE.

Respiratory Protection: USE FULL FACE ACID/ORGANIC VAPOR RESPIRATOR IF CELL VENTS. Ventilation: PROVIDE ADEQUATE VENTILATION IF CELL VENTS. Protective Gloves: NATURAL OR BUTYL RUBBER GLOVES. Eye Protection:WEAR CHEMICAL GOGGLES. Other Protective Equipment: WEAR PROTECTIVE CLOTHING, ENCAPSULATING SUIT, IF FIRE OCCURS. Work Hygienic Practices: AVOID EXPOSURE. WASH HAN DS AFTER HANDLING Supplemental Safety and Health BA-5598 BATTERY CONSISTS OF 5 CELLS/BATTERY, 2.666 GMS LITHIUM/CELL (13.33 GMS LITHIUM/BATTERY). BATTERY USED IN A MODEL M71 DEVICE THAT REMOTELY ACCOMPLISH CONTROL OF MINE DISPENSERS FOR LAYING OF MI NES AND FOR ARMING AND DISARMING OF LAND MINES FROM A PROTECTED POSITION. HCC:R2 Melt/Freeze Pt:M.P/F.P Text:>350F,>177C Solubility in Water: DO NOT EXPOSE TO H2O

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ppearance and Odor: A SMALL BATTERY, CYLINDRICAL OR BOXLIKE.

Stability Indicator/Materials to Avoid:YES

DO NOT EXPOSE TO WATER.

Stability Condition to Avoid:DO NOT HEAT ABOVE 185F, PUNCTURE, OPEN CELL, SHORT CIRCUIT, OR ATTEMPT TO RECHARGE.

Hazardous Decomposition Products:CARBON MONOXIDE, AND CAUSTIC LITHIUM OXIDE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods: FULLY DISCHARGE PRIOR TO DISPOSAL. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE.

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