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HAWKER ETERNACELL, INC. -- ETERNACELL LITHIUM SDX -- 4920-01-154-8792

Product ID: ETERNACELL LITHIUM SDX MSDS Date:08/28/1998 FSC:4920 NIIN:01-154-8792 Status Code:A MSDS Number: CLDXX === Responsible Party === Company Name: HAWKER ETERNACELL, INC. Address:495 BOULEVARD City:ELMWOOD PARK State:NJ ZIP:07407-2029 Country:US Info Phone Num:201-796-4800 **Emergency Phone** Num:201-796-4800 EXT 164 Preparer's Name:K. ERRICKSON Chemtrec Ind/Phone:(800)424-9300 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

Ingred Name:SULFUR DIOXIDE CAS:7446-09-5 RTECS #:WS4550000 OSHA PEL:5 MG/M3 ACGIH TLV:5.2 MG/M3 ACGIH STEL:13 MG/M3;5 PPM

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ame:LITHIUM CAS:7439-93-2 RTECS #:OJ5540000 OSHA PEL:NA ACGIH TLV:NA

Ingred Name:PROPYLENE CAS:115-07-1 RTECS #:UC6740000 OSHA PEL:NE ACGIH TLV:NE

Ingred Name:ACETONITRILE CAS:75-05-8 RTECS #:AL7700000 OSHA PEL:67 MG/M3 ACGIH TLV:101 MG/M3 ACGIH STEL:101 MG/M3;60 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:LITHIUM CASE MIXTURE OSHA PEL:NE ACGIH TLV:NE

Ingred Name:STEEL CASING & NON-HAZARDOUS COMPONENTS OSHA PEL:NE ACGIH TLV:NE

Ingred Name:TEFLON CAS:9002-84-0 RTECS #:KX4025000

OSHA PEL:15 MG/M3 ACGIH TLV:NE

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:RISK ONLY OCCURS IF CELL VENTS OR IS OPENED. ACUTE: ELECTROLYTE IS SEVERE IRRITANT. INTACT LITHIUM IS REACTIVE, WITH MOISTURE. AVOID CONTACT. CHRONIC: MAY CAUSE DERMATITIS. SOME COMPONENTS HAVE BEEN SHOWN TO BE TERATOGENIC TO ANIMALS. AVOID CONTACT. Effects of Overexposure:EXPOSURE TO SKIN OR EYES MAY CAUSE IRRITATION. INHALATION MAY RESULT IN DIFFICULTY BREATHING. Medical Cond Aggravated by Exposure:UNKNOWN.

First Aid:EYE: FLUSH WITH WATER FOR 15 MINUTES. SEEK MEDICAL ASSISTANCE. SKIN: FLUSH WITH WATER FOR 15 MINUTES. SEEK MEDICAL ASSISTANCE. INHALATION: REMOVE TO FRESH AIR. SEEK MEDICAL ASSISTANCE.

======= Fire Fighting Me

Flash Point: AVOID >185F

Extinguishing Media:LITH-X, DRY SAND, DRY POWDERED GRAPHITE. Fire Fighting Procedures:COVER BATTERY WITH EXTINGUISHING MEDIA, ALLOW TO COOL, REMOVE ADJACENT COMBUSTIBLE MATERIALS IF SAFE TO DO SO, SCBA REQUIRED.

Unusual Fire/Explosion Hazard:DO NOT USE WATER TO EXTINGUISH FIRES, CELLS CAN REACT WITH WATER VIOLENTLY. CELLS CAN VENT ELECTROLYTE IF SUBJECTED TO TEMPERATURES OF 185F OR GREATER. HEATING ABOVE 353F WILL LEAD T

O MELTING OF LIT HIUM AND REPRESENTS A SEVERE FIRE AND EXPLOSION HAZARD.

Spill Release Procedures: ALLOW BATTERY TO COOL AND VAPOR TO DISSIPATE. AVOID INHALATION OF VAPORS. REMOVE SPILLED ELECTROLYTE WITH ABSORBENT MATERIAL. WEAR FULL-FACE ACID/ORGANIC CARTRIDGE RESPIRATOR.

Handling and Storage Precautions:BATTERIES MAY EXPLODE, IGNITE, OR VEN T

ELECTROLYTE IF CRUSHED, OPENED, PUNCTURED, OR EXPOSED TO TEMPERATURES IN EXCESS OF 185F. DO NOT SHORT CIRCUIT, INSTALL WITH INCORRECT POLARITY, OR ATTEMPT TO REC HARGE. DO NOT INCINERATE.

======= Exposure Controls/Personal Protection ===============

Respiratory Protection:USE FULL-FACE ACID/ORGANIC VAPOR RESPIRATOR IF CELL VENTS. USE SCBA IF LARGE NUMVERS OF CELLS VENT SIMULTANEOUSLY. Ventilation:PROVIDE IF CELL VENTS. Protective Gloves:NATURAL OR BUTYL RUBBER. Eye Prot

ection:CHEMICAL GOGGLES. Other Protective Equipment:USE ENCAPSULATING SUIT IF FIRE OCCURS. Nork Hygienic Practices:AVOID EXPOSURE. WASH HANDS AFTER HANDLING. Supplemental Safety and Health DENTITY: LITHIUM/SULFUR DIOXIDE CELL & BATTERIES.
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HCC:Z6 Solubility in Water:DO NOT EXPOSED TO WATE. Appearance and Odor:APPEANCE OF SMALL BATTERY, CYLINDRICAL OR BOXLIKE. ODOR: NONE.
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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:MAY INCLUDE CARBON MONOXIDE AND CAUSTIC LITHIUM OXIDE.
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Waste Disposal Methods:FULLY DISCHARGE PRIOR TO DISPOSAL. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
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Transport Information:PROPER SHIPPING NAME: LITHIUM BATTERY. CLASS: 9. UN ID NO.: UN3090. PACKING GROUP: II. LABEL: CLASS 9. EXCEPTION: LITHIUM CELLS AND BATTERIES CONTAINING NO MORE THAN 1.0G LITHIUM ARE NOT SUBJECT TO 49 CFR 173.185. [173.185(B)(1)], [173.185(B)(2)].

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