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

======== Product Identification ============

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

======= Composition/Information on Ingredients ========

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

Ingred N

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

========= Hazards Identification =================

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.
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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.
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EL L. D. : ANYOLD ASSE
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.
======== Accidental Release Measures =========
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 ==============
Handling and Storage Precautions:BATTERIES MAY EXPLODE, IGNITE, OR VEN
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

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. Work Hygienic Practices:AVOID EXPOSURE. WASH HANDS AFTER HANDLING. Supplemental Safety and Health IDENTITY: LITHIUM/SULFUR DIOXIDE CELL & BATTERIES.
======== Physical/Chemical Properties ==========
HCC:Z6 Solubility in Water:DO NOT EXPOSED TO WATE. Appearance and Odor:APPEANCE OF SMALL BATTERY, CYLINDRICAL OR BOXLIKE. ODOR: NONE.
======== Stability and Reactivity Data
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.
======== Disposal Considerations ===========
Waste Disposal Methods:FULLY DISCHARGE PRIOR TO DISPOSAL. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
==== ======== MSDS Transport Information ===========
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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