

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.

===== First Aid Measures =====

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 Measures =====

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 VENT

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.
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.

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===== 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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