

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 Phon
e 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

Name: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 #:KX402500
0
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 TO MELTING OF LITHIUM 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 ELECTROLYTE IF CRUSHED, OPENED, PUNCTURED, OR EXPOSED TO TEMPERATURES IN EXCESS OF 185F. DO NOT SHORT CIRCUIT, INSTALL WITH INCORRECT POLARITY, OR ATTEMPT TO RECHARGE. DO NOT INCINERATE.

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

Respiratory Protection:USE FULL-FACE ACID/ORGANIC VAPOR RESPIRATOR IF CELL VENTS. USE SCBA IF LARGE NUMBERS OF CELLS VENT SIMULTANEOUSLY.

Ventilation:PROVIDE IF CELL VENTS.

Protective Gloves:NATURAL OR BUTYL RUBBER.

Eye Protection

tection: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)].

=====

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.