

HAWKER ETERNACELL INC (FORMALLY POWER CONVERSION INC) -- ETERNACELL LITHIUM SDX  
-- 6135-01-448-4680

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

Product ID:ETERNACELL LITHIUM SDX  
MSDS Date:08/28/1998  
FSC:6135  
NIIN:01-448-4680  
Status Code:A  
MSDS Number: CKWDR  
=== Responsible Party ===  
Company Name:HAWKER ETERNACELL INC (FORMALLY POWER CONVERSION INC)  
Address:495 BOULEVARD  
City:ELMWOOD PARK  
State:NJ  
ZIP:0740  
7-2029  
Country:US  
Info Phone Num:201-796-4800  
Emergency Phone Num:800-424-9300  
Preparer's Name:K. ERICKSON  
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  
Contract Num:DAAB07-96-D-G018-011  
CAGE:5G978

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

Ingred Name:SULFUR DIOXIDE  
CAS:7446-09-5  
RTEC

S #:WS4550000  
OSHA PEL:5 MG/M3  
ACGIH TLV:5.2 MG/M3;2 PPM  
ACGIH STEL:13 MG/M3;5 PPM

Ingred Name:LITHIUM  
CAS:7439-93-2  
RTECS #:OJ5540000

Ingred Name:PROPYLENE  
CAS:115-07-1  
RTECS #:UC6740000

Ingred Name:ACETONITRILE  
CAS:75-05-8  
RTECS #:AL7700000  
OSHA PEL:67 MG/M3  
ACGIH TLV:67 MG/M3;40 PPM  
ACGIH STEL:101 MG/M3;60 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:LITHIUM SALTS MIXTURE

Ingred Name:STEEL CASING & NON-HAZARDOUS COMPONENTS

Ingred Name:TEFLON  
CAS:9002-84-0  
RTECS #:KX4025000  
OSHA PEL:15 MG/M3

===== 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.

Eff

ects of Overexposure:EXPOSURE TO SKIN OR EYES MAY CAUSE IRRITATION.  
INHALATION MAY RESULT IN DIFFICULTY BREATHING.

=====  
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  
=====

Extinguishing Media:FLASH POINT:

AVOID TEMPERATURES ABOVE 185F. 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 354F WILL LEAD TO MELTING OF LITHI UM AND REPRESENTS A S  
EVERE FIRE AND  
EXPLOSION HAZARD.

=====  
Accidental Release Measures  
=====

Spill Release Procedures:ALLOW BATTERY TO COOL AND VAPOR TO DISSIPATE. AVOID CONTACT. 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 CRUS  
HED, 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 NUMBERS OF CELLS VENT SIMULTANEOUSLY.

Ventilation:PROVIDE IF CELL VENTS.

Protective Gloves:NATURAL OR BUTYL RUBBER GLOVES.

Eye Protection:CHEMICAL GO

GGLES.

Other Protective Equipment:USE ENCAPSULATING SUIT IF FIRE OCCURS.

Work Hygienic Practices:AVOID EXPOSURE. WASH HANDS AFTER HANDLING.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:V1

Solubility in Water:DO NOT EXPOSE TO WATER.

Appearance and Odor:APPEARANCE OF SMALL BATTERY, CYLINDRICAL OR BOXLIKE; NO ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

DO NOT E

XPOSE 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.

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.

===== M

SDS Transport Information =====

Transport Information:PSN: LITHIUM BATTERY, 9, UN3090, II. EXCEPTION:

LITHIUM CELLS AND BATTERIES CONTAINING NO MORE THAN 1.0 GRAM LITHIUM ARE NOT SUBJECT TO 49 CFR 173.185

===== 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.