

HAWKER ETERNACELL INC (FORMALLY POWER CONVERSION INC) -- ETERNACELL LITHIUM SDX
-- 6135-01-439-6229

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

Product ID:ETERNACELL LITHIUM SDX

MSDS Date:08/28/1998

FSC:6135

NIIN:01-439-6229

Status Code:A

MSDS Number: CKNXN

=== 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. ERRICKSON

Chemtec 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

A

CGIH TLV:5.2 MG/M3;2 PPM
ACGIH STEL:13 MG/M3;5 PPM

Ingred Name:LITHIUM METAL
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:101 MG/M3
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:LITHIUM SALTS MIXTURE

Ingred Name:STEEL CASING AND NON-HAZARDOUS COMPONENTS

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

===== Hazards Identifi
cation =====

LD50 LC50 Mixture:NOT PROVIDED.

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.

Explanation of Carcinogenic

ity:NOT PROVIDED.

Effects of Overexposure:EXPOSURE TO EYES AND SKIN MAY CAUSE IRRITATION.

INHALATION MAY RESULT IN DIFFICULTY IN BREATHING.

Medical Cond Aggravated by Exposure:UNKNOWN.

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===== 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.

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===== Fire Fighting Measures =====

Flash Point:N/A AVOID >185F

Autoignition Temp:Autoignition Temp Text:NA

Lower Limits:NA

Upper Limits:NA

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 I F

SUBJECTED TO TEMPERATURES OF 185F OR GREATER. HEATING ABOVE 354F WILL LEAD TO MELTING OF LITHI UM AND REPRESENTS A SEVERE FIRE AND EXPLOSION HAZARD.

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===== 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.

Neutralizing Agent:NOT PROVIDED.

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===== 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 185 F. DO NOT SHORT CIRCUIT, INSTALL WITH INCORRECT POLARITY, OR ATTEMPT TO RE CHARGE. DO NOT INCINERATE.

Other Precautions:NOT PROVIDED.

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

Respiratory Protection:USE FULL-FACE ACID/ORGANIC VAPOR RESPI

RATOR 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 GOGGLES.

Other Protective Equipment:USE ENCAPSULATING SUIT IF FIRE OCCURS.

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

Supplemental Safety and Health

PART NUMBER: BA 512 A/U. EACH CELL OR BATTERY CONTAINS 0.36 GRAMS OF LITHIUM.

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===== Physical/Chemical Properties =====
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HCC:Z6

NRC/State Lic Num:NOT RELEVANT.

Boiling Pt:B.P. Text:NA

Melt/Freeze Pt:>178.9C, 354.F

Vapor Pres:NA

Vapor Density:NA

Spec Gravity:NA

Viscosity:NOT RELEVANT.

Evaporation Rate & Reference:NA

Solubility in Water:DO NOT EXPOSE TO WATER.

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

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===== Stability and Reactivity Data =====
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Stability Indicator/Materials to Avoid:YES

DO NOT EXPOSE TO WATER.

Stability Condit

ion 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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===== Disposal Considerations =====
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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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===== MSDS Transport Information =====
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Transport Information:APPLICIABLE RE

GULATIONS: 49 CFR 172.101,
173.185, IATA. PROPER SHIPPING NAME: LITHIUM BATTERY; CLASS 9; UN
3090; PACKING GROUP: I I; LABEL: CLASS 9. EXCEPTION: LITHIUM CELLS
AND BATTERIES CONTAINING NO MORE THAN 1.0 GRAMS OF LITHIUM ARE NOT
SUBJECT TO 49 CFR 173.185. [173.185(B)(1)], [173.185(B)(2)]. EACH
CELL OR BATTERY CONTAINS 0.36 GMS OF LITHIUM. THEREFORE IS NOT
REGULATED FOR TRANSPORTATION.

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