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HAWKER ETERNACELL INC (FORMALLY POWER CONVERSION INC) -- LITHIUM SULFUR DIOXIDE CELLS AND BATTERY -- 6135-01-447-5083

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

Product ID:LITHIUM SULFUR DIOXIDE CELLS AND BATTERY

MSDS Date:08/28/1998

FSC:6135

NIIN:01-447-5083 Status Code:A

MSDS Number: CKSGR === Responsible Party ===

Company Name: HAWKER ETERNACELL INC (FORMALLY POWER CONVERSION 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

Preparer's Name: K ERRICKSON

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:13 MG/M3 ;5 PPM

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:70 MG/M3;40 PPM 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 SALT MIXTURE

Ingred Name: STEEL CASING & NON-HAZARDOUS COMPONENTS

Ingred Name:TEFLON

CAS:9002-84-0

RTECS #:KX4025000

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==== 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 ORIS
OPENED. ACUTE: ELECTROLYTE IS SEVERE IRRITANT. INTACT LITHIUM IS
REACTIVE, WITH MOISTURE AVOID CONTACT. CHRONIC MAY CAUSE
DERMATITIS. SOME COMPONENTS HAVE BEEN S HOWN TO BE TERATOGENIC TO

ANIMALS. AVOID CONTACT.

Effects of Overexposure: EXPOSURE TO

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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Flash Point:AVOI D TEMP 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 345F WILL LEAD TO MELTING OF LIT HIUM AND REPRESENTS A SEV ERE 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 CR USHED, OPENED, PUNCTURED, OR EXPOSED TO TEMPERATURES IN EXCESS OF 185F. DO NOT SHORT CIRCUIT, INSTALL WITH INCORRECT POLARITY, OR ATTEMPT TO RE CHARGE. 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

SKIN OR EYES MAY CAUSE IRRITATION.

GOGGLES. Other Protective Equipment:USE ENCAPSULATING SUIT IF FIRE OCCURS. Work Hygienic Practices:AVOID EXPOSURE. WASH HANDS AFTER HANDLING. Supplemental Safety and Health
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HCC:Z6 Solubility in Water:DO NOT EXPOSE TO WATER. Appearance and Odor:APPEARANCE OF SMALL BATTERY, CYLINDRICAL OR BOXLIKE. ODOR: NONE.
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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 REGULATION.
=========== MSDS Transport Information ====================================
Transport Information:APPLICABLE REGULATIONS: 49 CFR 172.101, 173.185, IATA. PROPER SHIPPING NAME: LITHIUM BATTERY. CLASS: 9. UN ID NI.: UN3090. PACKING GROUP: II. CLASS 9. EXECPTION: LITHIUM CELLS AND BATTERIES CONTAINING MORE THAN 1.0G LITHIUM ARE NOT SUBJECT TO 49 CFR 173.185.
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