

POWER CONVERSION INC -- LITHIUM/MANGANESE DIOXIDE BATTERY -- 6135-01-340-7883

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

Product ID:LITHIUM/MANGANESE DIOXIDE BATTERY

MSDS Date:09/17/1992

FSC:6135

NIIN:01-340-7883

MSDS Number: BPCGK

=== Responsible Party ===

Company Name:POWER CONVERSION INC

Address:495 BOULEVARD

City:ELMWOOD PARK

State:NJ

ZIP:07407-2029

Country:US

Info Phone Num:201-796-4800

Emergency Ph

one Num:201-796-4800

CAGE:5G978

=== Contractor Identification ===

Company Name:BATTERY ASSEMBLERS INC

Address:211-4 KNICKERBOCKER AVE

Box:City:BOHEMIA

State:NY

ZIP:11716

Country:US

Phone:407-323-3390/EM:516-567-8855/8278

CAGE:0B0Y5

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:LITHIUM

CAS:7439-93-

2  
RTECS #:OJ5540000  
Other REC Limits:NONE RECOMMENDED

Ingred Name:MANGANESE DIOXIDE  
CAS:1313-13-9  
RTECS #:OP0350000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG/M3 CEILING  
ACGIH TLV:5 MG/M3 (AS MN DUST)

Ingred Name:CARBON BLACK  
CAS:1333-86-4  
RTECS #:FF5800000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:3.5 MG/M3  
ACGIH TLV:3.5 MG/M3; 9293

Ingred Name:GRAPHITE, NATURAL  
CAS:7782-42-5  
RTECS #:MD9659600  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MPPCF RDUST  
ACGIH TLV:2 MG/M3 RDUST; 9293

Ingr  
ed Name:TEFLON (TETRAFLUORO ETHYLENE POLYMER)  
CAS:116-14-3  
RTECS #:KX4025000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST

Ingred Name:PROPYLENE CARBONATE  
CAS:108-32-7  
RTECS #:FF9650000  
Other REC Limits:NONE RECOMMENDED

Ingred Name:DIMETHOXY ETHER (DME)  
Other REC Limits:NONE RECOMMENDED

Ingred Name:LITHIUM TRIFLUOROMETHANE SULFONATE  
Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

Routes of Entry: Inh

alation:NO Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:(ACUTE/CHRONIC) THESE CHEMICALS ARE CONTAINED IN A SEALED CAN. RISK OF EXPOS OCCURS ONLY IF BATTERY IS MECHANICALLY/ELEC ABUSED. THE MOST LIKELY RISK IS ACUTE EXPOS WHEN A CELL VENTS. PC IS MILDLY IRR ITATING UPON EYE & SKIN CONTACT. DME ISBELIEVED TO BE SLIGHTLY TO MODERATELY TOXIC. CONTACT OF (SEE EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVAN

T

Effects of Overexposure:HLTH HAZ: ELECTROLYTE AND EXTRUDED LITHIUM WITH SKIN AND EYES SHOULD BE AVOIDED. INHAL OR INGEST OF LITHIUM TRIFLUOROMETHANE SULFONATE MAY BE HARMFUL. IRRITATION OF SKIN OR EYES. LITHIUM CAN CAUSE THE RMAL AND CHEMICAL BURNS UPON CONTACT WITH SKIN. DME MAY BE A REPRODUCTIVE HAZARD.

Medical Cond Aggravated by Exposure:AN ACUTE EXPOSURE WILL NOT GENERALLY AGGRAVATE ANY MEDICAL CONDITION.

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

First Aid:SKIN: IN CASE OF CONTACT WITH CONTENTS OF BATTERY, FLUSH IMMEDIATELY WITH WATER. EYES: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. INHAL: DO NOT INHALE VENTED MATERIAL. IF IRRITATION PERSISTS, GET MD. INGEST: CALL MD IMMEDIATELY.

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

Extinguishing Media:WATER

Fire Fighting Procedures:USE NIOSH/MSHA APPRVD SCBA & FULL PROTECTIVE EQUIP . THE PREFERRED PROCEDURE IS TO RAPIDLY COOL THE BATTERIES AND ADJACENT STRUCTURES WITH WATER.

Unusual Fire/Explosion Hazard:CELLS CAN VENT WHEN SUBJECTED TO EXCESSIVE HEAT. WHEN LARGE NUMBERS OF CELLS ARE INVOLVED IN A FIRE, FIRE FIGHTERS SHOULD USE NIOSH/MSHA APPROVED SCBA.

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

Spill Release Procedures:REMOVE SPILLED LIQ WITH ABSORBENT.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

=====  
===== Handling and Storage =====  
=====

Handling

and Storage Precautions:AVOID MECHANICAL OR ELECTRICAL ABUSE.

Other Precautions:BATTERIES MAY EXPLODE, PYROLIZE, OR VENT IF  
DISASSEMBLED, CRUSHED, RECHARGED OR EXPOSED TO FIRE OR HIGH  
TEMPERATURES. DO NOT SHORT OR INSTALL WITH INCORRECT POLARITY.

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

Respiratory Protection:NONE USUALLY.

Ventilation:IN CASE OF VENTING, PROVIDE AS MUCH VENTILATION AS  
POSSIBLE.

Protective Gloves:BUTYL GLOVES.

Eye Protection:CHEMICAL WORK  
ERS GOGGLES .

Other Protective Equipment:NONE

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

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

HCC:N1

Appearance and Odor:BATTERY.

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:DO NOT HEAT, DISASSEMBLE, OR RECHARGE.

Hazardous Decompo

sition Products:NONE SPECIFIED BY MANUFACTURER.

=====  
===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH APPROPRIATE FEDERAL,  
STATE AND LOCAL REGULATIONS. OPEN CELLS SHOULD BE TREATED AS  
HAZARDOUS WASTE.

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.