

POWER CONVERSION INC -- TO4/51;LITHIUM/THIONYL CHLORIDE BATTERY -- 6135-01-370-2599
===== Product Identification =====

Product ID:TO4/51;LITHIUM/THIONYL CHLORIDE BATTERY

MSDS Date:08/24/1992

FSC:6135

NIIN:01-370-2599

MSDS Number: BVZRB

=== 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 Phone Num:201-796-4800

CAGE:5G978

=== Contractor Identification ===

Company Name:ADVANCED INDUSTRIES INC

Address:415 NORTHCUTT STREET

Box:5666

City:LONGVIEW

State:TX

ZIP:75608

Country:US

Phone:214-236-4101

CAGE:0GA21

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

Company Name:MCDONNELL DOUGLAS CORP/AEROSPACE SYSTEMS

Address:5301 BOLSA AVE

Box:City:HUNTINGTON BEACH

State

:CA
ZIP:92647-2099
Country:US
CAGE:18355

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Composition/Information on Ingredients
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Ingred Name:THIONYL CHLORIDE
CAS:7719-09-7
RTECS #:XM5150000
Fraction by Wt: 36%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 1 PPM
ACGIH TLV:C 1 PPM; 9394

Ingred Name:LITHIUM TETRACHLORO ALUMINATE
Fraction by Wt: 4%
Other REC Limits:NONE RECOMMENDED

Ingred Name:LITHIUM METAL
CAS:7439-93-2
RTECS #:OJ5540000
Fraction by Wt: 3%
Other REC Limits:NONE RECOMMENDED

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Hazards Identification
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Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:NO EXPOSURE IS NORMALLY EXPECTED.
ELECTROLYTE IS IMMOBILIZED AND COMPLETELY SECURED WITHIN BATTERY.
IF BATTERY IS OPENED, ELECTROLYTE WILL BE CORROSIVE TO ALL BODY
TISSUES, AND WILL CAUSE SEVERE IRRITATION AND BURNS.
Explanation of Carcinogenicity:THERE ARE NO INGREDIENTS ABOVE 0.1%
WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP,IARC OR OSHA.
Effects of Overexposure:NO EXPOSURE IS NORMALLY EXPECTED. IF BATTERY IS
OPENED: IF CONTACTED, SEVERE BURNS AND ULCERATION OF SKIN AND EYES,
IF INHALED, SEVERE RESPIRATORY IRRITATION, IF INGESTED, SEVERE
BURNS AND ULCERATION. INHALATION MAY CAUSE DIFFICULTY IN BREATHING.
Medical Conditions Aggravated by Exposure:PERSONS WITH PRE-EXISTING
RESPIRATORY AILMENTS(ASTHMA,EMPHYSEMA) MAY BE AT INCREASED RISK
FROM EXPOSURE.

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First Aid Measures =====

First Aid:EYES/SKIN: FLUSH WITH PLENTY OF WATER. SEE DOCTOR IMMEDIATELY. INHALATION: REMOVE TO FRESH AIR. SEE DOCTOR. INGESTION: DO NOT INDUCE VOMITING. GIVE MILK OF MAGNESIA. SEE DOCTOR IMMEDIATELY.

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

Extinguishing Media:USE EXTINGUISHER FOR ALKALINE METAL FIRE(EG.LITH-X,METAL-X,SAND,DRY CHEMICAL). DO NOT USE WATER,HALON OR CO*2.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:RELEASES TOXIC, CORROSIVE AND FLAMMABLE GASES IF OPENED, SUCH AS SULFUR DIOXIDE, HYDROGEN CHLORIDE AND HYDROGEN.

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

Spill Release Procedures:VENTILATE AREA.NEUTRALIZE WITH SODIUM BICARBONATE OR SODIUM CARBONATE.SOAK UP WITH NON-COMBUSTIBLE INERT ADSORBANT(EG.CLAY);PLACE COLLECTED MATERIAL IN A PLASTIC BAG FOR DISPOSAL.

Neutralizing Agent:SODIUM BICARBONATE,SODIUM CARBONATE.

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

Handling and Storage Precautions:STORE IN COOL PLACE, AWAY FROM HEAT AND OPEN FLAMES. ELEVATED TEMPERATURE CAN RESULT IN SHORTENED BATTERY LIFE. PREVENT CONDENSATION ON BATTERIES.

Other Precautions:DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 185F, INCINERATE OR EXPOSE CONTENTS TO WATER. BATTERY CONTENTS ARE A FIRE, EXPLOSION AND SEVERE BURN HAZARD.DO NOT USE IN HERMETICALLY SEALED CONTAINERS.

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

Respiratory Protection:IF VENTING OCCURS WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE A SELF-CONTAINED BREATHING APPARATUS IN THE POSITIVE PRESSURE MODE.

Ventilation:IF VENTING OCCURS,USE LOCAL EXHAUST.

Protective Gloves:RUBBER GLOVES IF BATTERY IS OPENED

Eye Protection:CHEMICAL SPLASH GOGGLES

Other Protective Equipment:PROTECTIVE

CLOTHING,AS NEEDED.PROVIDE A
LOCAL EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:IF CONTACTED WITH OPENED BATTERY, WASH
THOROUGHLY AFTER CONTACTED.

Supplemental Safety and Health

THESE ARE SINGLE CELL SEALED BATTERIES CONTAINING 0.5 GM OF LITHIUM PER
CELL/BATTERY.

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

HCC:N1

Appearance and Odor:SEALED BATTERY.

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

Stability Indicator/Mate

rials to Avoid:YES

DO NOT EXPOSE CONTENTS TO WATER.

Stability Condition to Avoid:DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE
185F, INCINERATE.

Hazardous Decomposition Products:SULFUR DIOXIDE, HYDROGEN CHLORIDE,
HYDROGEN.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND
LOCAL REGULATIONS.DO NOT PUNCTURE OR INCINERATE.

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