

POWER CONVERSION INC -- T04/53, ETERNACELL THIONYL CHLORIDE TCL -- 6135-01-411-3212  
===== Product Identification =====

Product ID:T04/53, ETERNACELL THIONYL CHLORIDE TCL

MSDS Date:08/28/1998

FSC:6135

NIIN:01-411-3212

Status Code:A

MSDS Number: CJWNL

=== 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:201-796-1606

Preparer's Name:K. ERICKSON

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

Company Name:PATTERSON COONEY INC

Address:1022 STAR LN UNIT 6E

Box:983

City:NEW LENOX

State:IL

ZIP:60451

Country:US

Phone:815-463-0580

Contract Num:SP0400-A-AE47-0527

CAGE:9U103

Com

pany Name:POWER CONVERSION INC  
Address:280 MIDLAND AVE  
Box:City:SADDLE BROOK  
State:NJ  
ZIP:07662  
Country:US  
Phone:201-796-4800  
CAGE:0CEP0

=====  
Composition/Information on Ingredients  
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Ingred Name:THIONYL CHLORIDE  
CAS:7719-09-7  
RTECS #:XM5150000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C 1 PPM  
ACGIH TLV:C 1 PPM; 9596

Ingred Name:LITHIUM TETRACHLORO ALUMINATE  
Other REC Limits:NONE RECOMMENDED

Ingred Name:LITHIUM METAL  
CAS:7439-93-2  
RTECS #:OJ5540000  
Fraction by Wt: 0.25  
% GRAMS  
Other REC Limits:NONE RECOMMENDED

=====  
Hazards Identification  
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LD50 LC50 Mixture:LD50 (ORAL, RAT) IS UNKNOWN.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:BATTERY IS HERMETICALLY SEALED,  
NON-HAZARDOUS UNDER NORMAL USE. ACUTE: IF BATTERY IS OPENED,  
THIONYL CHLORIDE (TCL) CAN CAUSE SEVERE IRRITATION/BURNS OF EYES,  
NOSE AND THROAT. MAY CAUSE  
BLINDNESS. IN PRESEINCE OF MOISTURE,  
PULMONARY EDEMA AND LARYNGEAL SPASMS CAN OCCUR. CHRONIC: LUNG  
DAMAGE (FUMES OF TCL).  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:SEVERE IRRITATION, BURNS AND PAIN, DRY THROAT  
AND COUGHING, LARYGEAL SPASM, DIFFICULTY IN BREATHING,  
ASPHYXIATION.  
Medical Cond Aggravated by Exposure:EMPHYSEMA, ASTHMA

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First Aid Measures  
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First Aid:INHALED:MOVE TO FRESH AIR. CALL PHYSICIAN. EYES:FL

WASH WITH

WATER FOR 15 MINUTES. SEE PHYSICIAN. SKIN:WASH WITH SOAP & WATER.  
ORAL:IF BATTERY/OPEN BATTERY IS INGESTED, DO NOT INDUCE VOMITING OR  
GIVE FOOD/DRINK. SEEK IMMEDIATE MEDICAL ATTENTION. CALL NATIONAL  
BATTERY INGESTION HOTLINE FOR ADVICE & FOLLOWUP (202-625-3333).

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

Flash Point:NONE

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:LITH-X, DRY POWDERED GRAPHITE, DRY SAND. DO NOT USE

CARBON DIOXIDE OF HALON TYPE.

Fire Fighting Procedures:NO WATER, CARBON DIOXIDE, SODA-ACID OR  
HALOGENATED EXTINGUISHERS. WEAR NIOSH-APPROVED SELF CONTAINED  
BREATHING APPARATUS & FULL PROTECTIVE CLOTHING. REMOVE OTHER  
BATTERIES AND COMBUSTIBLES FROM AREA OF BURNING BATTERY AND  
SMOTHER FIRE WITH LISTED AGENTS.

Unusual Fire/Explosion Hazard:HAZARDOUS DECOMPOSITION PRODUCTS MAY BE  
FORMED. TEMPERATURES ABOVE 354F WILL LEAD TO THE MELTING OF  
LITHIUM AND REPRESENTS A SEVERE FIRE HAZARD.

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

Spill Release Procedures:IF CELL/BATTERY VENTS/LEAKS/PUNCTURED,  
VENTILATE AREA. WEAR PROTECTIVE CLOTHING AND RESPIRATORY EQUIPMENT  
SUITABLE FOR TOXIC GASES. COVER ANY LIQUID WITH SODIUM  
BICARBONATE/CARBONATE TO NEUTRALIZE. SCOOP RESIDUE INTO PLASTIC  
BAG FOR DISPOSAL. FLUSH AREA WITH LARGE AMOUNTS OF WATER.

Neutralizing Agent:SODIUM BICARBONATE OR SODIUM CARBONATE.

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

Handling and Storage Precautions:STORE IN COOL, DRY PLACE, AWAY FROM  
WATER. DO NOT SHORT CIRCUIT BATTERIES. STORE IN ORIGINAL  
CONTAINERS. DO NOT STORE ABOVE 185F.

Other Precautions:DO NOT INCINERATE. DO NOT TOUCH BROKEN OR LEAKING  
BATTERIES. AVOID MECHANICAL OR ELECTRICAL ABUSE. DO NOT ATTEMPT TO  
RECHARGE. AVOID SHORT CIRCUITS. DO NOT CARRY BATTERIES LOOSE IN  
POCKET OR BAG. KEEP BATTERIES AWAY FROM SMALL CHILDREN.

===== Exposure =====

sure Controls/Personal Protection =====

Respiratory Protection:NOT NECESSARY UNDER NORMAL CONDITIONS OF USE.  
WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WHEN LARGE  
NUMBERS OF CELLS ARE INVOLVED IN A FIRE OR VENTING OCCURS.

Ventilation:EXHAUST AFFECTED AREA.

Protective Gloves:RUBBER FOR LEAKERS

Eye Protection:GOGGLES FOR LEAKERS

Other Protective Equipment:EYE BATH, WASHING FACILITIES, FULL  
PROTECTIVE CLOTHING IF FIRE OR VENTING OCCURS.

Work Hygienic Practices:OBSE

RVE GOOD INDUSTRIAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING,  
DRINKING/SMOKING.

Supplemental Safety and Health

KEEP BATTERIES AWAY FROM CHILDREN.

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

HCC:Z6

NRC/State Lic Num:NOT RELEVANT

Spec Gravity:NOT RELEVANT

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NOT RELEVANT

Appearance and Odor:BATTERY 3.5 VOLTS - ODORLESS

===== Stabi

lity and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:FIRE, HEAT ABOVE 185F, SHORT CIRCUIT.

Hazardous Decomposition Products:THIONYL CHLORIDE ON REACTION WITH  
WATER WILL PRODUCE SULFUR DIOXIDE AND HYDROGEN CHLORIDE.

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

Waste Disposal Methods:DISCHARGE CELLS OR BATTERIES PRIOR TO DISPOSAL  
AND ELECTRICALLY ISOLATE DURING PACKING. DISPOSE OF IN ACCORDANCE  
WITH

LOCAL, STATE AND FEDERAL REGULATIONS.

===== MSDS Transport Information =====

Transport Information: NOT REGULATED EACH CELL/BATTERY CONTAINS 0.25 GRAMS OF LITHIUM, AS PER 49CFR 173.185, IATA SPEC PROVISION A45, IMO PAGE 9033, MIL AIR A13.8.5

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