

TADIRAN ELECTRONIC INDUSTRIES INC -- LITHIUM THIONYL CHLORIDE BATTERY,TL-5104/P --
6135-01-225-9569

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

Product ID:LITHIUM THIONYL CHLORIDE BATTERY,TL-5104/P

MSDS Date:11/22/1993

FSC:6135

NIIN:01-225-9569

MSDS Number: BTRKZ

=== Responsible Party ===

Company Name:TADIRAN ELECTRONIC INDUSTRIES INC

Address:40 SEAVIEW BLVD

City:PORT WASHINGTON

State:NY

ZIP:11050

Country:US

Info Phone Num:516-621-4980/800-786-4890

Emergency Phone Num:

516-621-4980/800-786-4890

CAGE:0BYG1

=== Contractor Identification ===

Company Name:BATTERY OUTLET INC

Address:1608 CAMPOSTELLA RD

Box:City:CHESAPEAKE

State:VA

ZIP:23324

Country:US

Phone:757-545-4442

CAGE:0FGN2

Company Name:HEWLETT-PACKARD CO, CORPORATE HQ

Address:3000 MINUTEMAN RD

Box:City:ANDOVER

State:MA

ZIP:01810-1032

Country:US

Phone:404-648-8754/FAX: 800-947-3299

CAGE:28480

Company Name:J.G.B. ENTERPRISES

Address:115 METROPOLITAN DR

Box:209

City:LIVERPOOL

State:NY

ZIP:13088

Country:US

Ph

one:315-451-2770
CAGE:61125
Company Name:TADIRAN ELECTRONIC INDUSTRIES
Address:40 SEAVIEW BLVD
Box:City:PORT WASHINGTON
State:NY
ZIP:11050
Country:US
Phone:516-621-4980

CAGE:0BYG1
Company Name:TADIRAN ISRAEL ELECTRONICS INDUSTRIES LTD
Address:2 SEAVIEW BLVD
Box:City:PORT WASHINGTON
State:NY
ZIP:11050
Country:US
Phone:516-621-4980/ 800-786-4899
CAGE:S0522

=====
===== Composition/Information on Ingredients =====

Ingred Name:LITHIUM METAL
CAS:7439-93-2
RTECS #:OJ5540000
Other REC Limi
ts:NONE RECOMMENDED

Ingred Name:THIONYL CHLORIDE
CAS:7719-09-7
RTECS #:XM5150000
Fraction by Wt: 50%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 1 PPM
ACGIH TLV:C 1 PPM; 9596

Ingred Name:SULFUR DIOXIDE (SARA 302)
CAS:7446-09-5
RTECS #:WS4550000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 PPM
ACGIH TLV:2 PPM/5 STEL; 9596

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS UNKNOWN.
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Rep

orts of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:NONE. ACUTE- BATTERY IS HERMETICALLY SEALED. IF BROKEN OR IN FIRE: CORROSIVE LIQUID, CAUSES BURNS. HARMFUL IF INHALED. INHALATION OF SULFUR DIOXIDE MAY CAUSE EYE & RESPIRATORY TRACT IRRITATION. INGESTION CAN BE HARMFUL. CAN CAUSE SKIN IRRITATION/BURNS. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:NONE. IF BROKEN OR IN FIRE: IRRITATION, DRY THROAT

AND COUGHING, BURNS, PAIN

Medical Cond Aggravated by Exposure:NONE

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

First Aid:IF BROKEN/FIRE: GET MEDICAL HELP IF SYMPTOMS PERSIST.
INHALED:REMOVE TO FRESH AIR. CALL PHYSICIAN. EYES:FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. 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:FOR BURNING BATTERIES USE CLASS D EXTINGUISHERS; LITH-X, POWDERED GRAPHITE

Fire Fighting Procedures:NO WATER, SAND, CARBON DIOXIDE, SODA-ACID OR HALOGENATED EXTINGUISHERS. WEAR NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING.

Unusual

Fire/Explosion Hazard:HAZARDOUS DECOMPOSITION PRODUCTS MAY BE FORMED.

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

Spill Release Procedures:IF BROKEN, WEAR PROTECTIVE CLOTHING AND RESPIRATORY EQUIPMENT SUITABLE FOR TOXIC GASES. SWEEP, SCOOP OR PICK UP SPILLED MATERIAL. TRANSFER TO A SUITABLE CONTAINER FOR DISPOSAL. USE LARGE CONTAINER FILLED WITH OIL AND FILTERED MASKS. VENTILATE AREA.

Neutralizing Agent:NOT RELEVANT

===== Hand

ling and Storage =====

Handling and Storage Precautions:VENTILATED AREAS EQUIPPED WITH
SPRINKLER SYSTEM, AWAY FROM FLAMMABLES & WATER. WASH THOROUGHLY
AFTER HANDLING. DO NOT HEAT ABOVE 212F.

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 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.

Ventilation:ADEQUATE

Protective Gloves:RUBBER FOR LEAKERS

Eye Protection:GOGGLES FOR LEAKERS

Other Protective Equipment:EYE BATH, WASHING FACILITIES

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. WASH THOROUGH

LY BEFORE EATING,
DRINKING/SMOKING.

Supplemental Safety and Health

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

HCC:N1

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 - ODORLESS

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

Stability Indicator/Materials to Avoid:YES

WATER WITH INTERNAL CONTNETS

Stability C

condition to Avoid: FIRE, HEAT ABOVE 150C/302F, MOISTURE
Hazardous Decomposition Products: RUPTURED BATTERIES WILL RELEASE SULFUR
DIOXIDE, HYDROGEN, HYDROGEN CHLORIDE.

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

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND
FEDERAL REGULATIONS.

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.