

TADIRAN ELECTRONIC INDUSTRIES INC. -- LITHIUM THIONYL CHLORIDE BATTERY --  
6135-01-324-2505

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

Product ID:LITHIUM THIONYL CHLORIDE BATTERY

MSDS Date:12/08/1992

FSC:6135

NIIN:01-324-2505

MSDS Number: BQNKJ

=== Responsible Party ===

Company Name:TADIRAN ELECTRONIC INDUSTRIES INC.

Address:2 SEAVIEW BOULEVARD

City:PORT WASHINGTON

State:NY

ZIP:11050

Country:US

Info Phone

Num:516-621-4980

Emergency Phone Num:516-621-4980

CAGE:TADIR

=== Contractor Identification ===

Company Name:DELTA CONCEPTS, INC

Address:100 BROADHOLLOW RD, SUITE 308-9

Box:City:FARMINGDALE

State:NY

ZIP:11735

Country:US

CAGE:0CLE1

Company Name:TADIRAN ELECTRONIC INDUSTRIES INC.

Address:2 SEAVIEW BOULEVARD

Box:City:PORT WASHINGTON

State:NY

ZIP:11050

Country:US

Phone:516-621-4980

CAGE:TADIR

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

Ingred Name:THIONYL CHLORIDE

CAS:7719

-09-7  
RTECS #:XM5150000  
Fraction by Wt: 35%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C 1 PPM  
ACGIH TLV:C 1 PPM; 9293

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

Ingred Name:LITHIUM ALUMINUM CHLORIDE  
Fraction by Wt: 5%  
Other REC Limits:NONE RECOMMENDED

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

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.  
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.

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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.

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

Extinguishing Media:LIT-X ENTINGUISHER. USE EXTINGUISHER FOR ALKALINE  
METAL FIRE. DO NOT USE WATER.  
Fire Fighting Procedures:WEAR FIRE FIGHTIN

G 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:IF BATTERY IS OPENED, VENTILATE AREA, AVOID CONTACT WITH ELECTROLYTE, WEAR PROTECTIVE GLOVES, PLACE IN CONTAINER FILLED WITH OIL AND WRAP TIGHTLY IN POLYETHYLENE BAG.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== 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 302F, INCINERATE OR EXPOSE CONTENTS TO WATER. BATTERY CONTENTS ARE A FIRE, EXPLOSION AND SEVERE BURN HAZARD.

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Exposure Controls/Personal Protection =====

Respiratory Protection:NONE NORMALLY REQUIRED. NIOSH/MSHA-APPROVED CARTRIDGE RESPIRATOR OR FULL FACE MASK AS APPROPRIATE FOR EXPOSURE OF CONCERN IF BATTERY IS OPENED.

Ventilation:NO SPECIAL REQUIREMENT. VENTILATE IF BATTERY IS OPENED.

Protective Gloves:NONE. RUBBER GLOVES IF BATTERY IS OPENED

Eye Protection:NONE. GOGGLES IF CONTACT IS EXPECTED.

Other Protective Equipment:NONE NORMALLY REQUIRED. PROTECTIVE CLOTHING AS NEEDED IF CONTACT IS EXPECTED.

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

Supplemental Safety and Health

SIZE AA BATTERY WITH 0.55 GRAMS LITHIUM, SOLID CATHODE. ALL TADIRAN'S LITHIUM CELLS WHICH ARE SIZE AA OR SMALLER (EXCEPT AA HIGH CAPACITY) ARE NON RESTRICTED FOR TRANSPORTATION

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

HCC:N1

Appearance and Odor:SEALED BATTERY.

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

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Stability Indicator/Materials to Avoid: YES

DO NOT EXPOSE CONTENTS TO WATER.

Stability Condition to Avoid: DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 302F, OR INCINERATE.

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

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

Waste Disposal Methods: CONSULT YOUR LOCAL ENVIRONMENTAL OFFICER. BURY IN GROUND, 3 FEET DEEP. DO NOT INCINERATE. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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