

TADIRAN ELECTRONICS INDUSTRIES INC -- TADIRAN LITHIUM INORGANIC 3.6V BATTERY --  
6135-01-304-8652

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

Product ID:TADIRAN LITHIUM INORGANIC 3.6V BATTERY

MSDS Date:11/22/1995

FSC:6135

NIIN:01-304-8652

MSDS Number: CBTHD

=== Responsible Party ===

Company Name:TADIRAN ELECTRONICS INDUSTRIES INC

Address:40 SEAVIEW BLVD

City:PORT WASHINGTON

State:NY

ZIP:11050

Country:US

Inf

o Phone Num:408-354-5473

Emergency Phone Num:516-621-4980, 214-221-7523

CAGE:TADIR

=== Contractor Identification ===

Company Name:C3 INC/TELOS CORP (703-471-6000)

Box:UNKNOW

CAGE:2D749

Company Name:MONSANTO INDUSTRIAL CHEMICALS CO

Address:755 PAGE MILL RD

Box:City:PALO ALTO

State:CA

ZIP:94303

Country:US

Phone:800-225-2883

CAGE:50522

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  
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Ingred Name:THIONYL CHLORIDE  
CAS:7719-09-7  
RTECS #:XM5150000  
Fraction by Wt: 40% %  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:C 1 PPM  
ACGIH TLV:C 1 PPM; 9192

Ingred Name:LITHIUM METAL  
CAS:7439-93-2  
RTECS #:OJ5540000  
Fraction by Wt: 5%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:CARBON  
Fraction by Wt: 5% %  
Other REC Limits:NONE RECOMMENDED

Ingred Name:ALUMINUM CHLORIDE, ANHYDROUS  
CAS:7446-70-0  
RTECS #:BD0525000  
Fraction by Wt:  
6%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:LITHIUM CHLORIDE  
CAS:7447-41-8  
RTECS #:OJ5950000  
Fraction by Wt: 2% %  
Other REC Limits:NONE RECOMMENDED

Ingred Name:NICKEL PLATED IRON  
Fraction by Wt: 39% %  
Other REC Limits:NONE RECOMMENDED

Ingred Name:STAINLESS STEEL  
Fraction by Wt: 2% %  
Other REC Limits:NONE RECOMMENDED

Ingred Name:GLASS SEPARATOR  
Fraction by Wt: 1%  
Other REC Limits:NONE RECOMMENDED

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Hazards Identification  
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LD50 LC50 Mixture:NOT

GIVEN FOR PRODUCT AS A WHOLE

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:WHEN EXPOSED TO INTERNAL CONTENT,  
VAPORS ARE VERY IRRITATING TO EYS, MUCOUS MEMBRANE AND SKIN.  
OVEREXPOSURE CAN CAUSE SYMPTOMS OF NONFIBROTIC LUNG INJURY AND  
MEMBRANE IRRITATION.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT  
CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SU  
SPECT  
CARCINOGENS.

Effects of Overexposure:WHEN EXPOSED TO INTERNAL CONTENTS: DISTINCT  
ODOR, COUGHING, ACIDIC TASTE, EYE AND MUCOUS IRRITATION.

Medical Cond Aggravated by Exposure:LUNG INJURIES, ASTHMA, OTHER  
RESPIRATORY DISORDERS AND MEMBRANE IRRITATION.

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First Aid Measures  
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First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS  
OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING.  
WASH WITH SOAP AND  
WATER. IF IRRITATION PERSIST, GET MEDICAL  
ATTENTION. INH ALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET  
MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL  
ATTENTION.

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Fire Fighting Measures  
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Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:LIT-X-EXTINGUISHER (TRADEMARK FOR A GRAPHITE-BASED  
POWDER)

Fire Fighting Procedures:DO NOT USE WATER, SAND, CARBON DIOXID,  
SODA-AC

ID OR HALOGENATED HYDROCARBONS EXTINGUISHERS. WEAR  
PROTECTIVE BREATHING APPARATUS. COVER WITH LIT-X POWDER.

Unusual Fire/Explosion Hazard:DO NOT EXPOSE TO TEMPERATURES ABOVE 150C,  
INCINERATE, PUNCTURE, CRUSH, RECHARGE, OVERCHARGE OR SHORT CIRCUIT.

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Accidental Release Measures  
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Spill Release Procedures:VENTILATE THE CONTAMINATED AREA. DO NOT BREATH  
VAPORS OR TOUCH CELL CONTENT WITH BARE HANDS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:FOLLOWING SPECIFIED BY UL:" WARNING:  
FIRE, EXPLOSION AND SEVERE HAZARD. DO NOT RECHARGE, DISASSEMBLE,  
HEAT ABOVE 100C, INCINERATE OR EXPOSE TO WATER."  
Other Precautions:DO NOT STORE BATTERIES FOR LONG PERIODS IN HIGH  
HUMIDITY. DO NOT SHORT CIRCUIT, RECHARGE, OVERDISCHARGE, EXPOSE TO  
TEMPERATUREE ABOVE 150C, CRUSH OR PUNCTURE.

==== Exposure Controls/Personal Protection  
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Respiratory Protection:ACID GAS FILTER MASK  
Ventilation:LOCAL EXHAUST RECOMMENDED.  
Protective Gloves:BUTYL RUBBER GLOVES  
Eye Protection:CHEMICAL WORKER SAFETY GOGGLES.  
Other Protective Equipment:CHEMICAL LABORATORY GARMENTS AS NECESSARY TO  
PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE  
AVAILABLE.  
Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER  
BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.  
Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

HCC:Z6  
Boiling Pt:B.P. Text:NOT GIVEN  
Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN  
Vapor Pres:NOT GIVEN  
Vapor Density:NOT GIVEN  
Spec Gravity:NOT GIVEN  
Evaporation Rate & Reference:NOT GIVEN  
Solubility in Water:NOT GIVEN  
Appearance and Odor:NOT GIVEN

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

Stability Indicator/Materials to Avoid:YES  
FIRE, HEAT OVER 150C, FORCE OPENING,

RECHARGING, INCINERATING, EXPOSURE  
TO WATER OR HIGH HUMIDITY.

Stability Condition to Avoid:THE BATTERY INGREDIENTS CAN FORM HCL, SO2  
AND H2 UPON CONTACT WITH WATER (ONLY WHEN FORCED OPEN).

Hazardous Decomposition Products:SULFUR DIOXIDE, HYDROGEN CHLORIDE,  
HYDROGEN

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING  
ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR  
LINER IN A  
CCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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