

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 =====

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

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

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 SUSPECT 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.

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

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. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

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

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-ACID 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.

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

Spill Release Procedures:VENTILATE THE CONTAMINATED AREA. DO NOT BREATHE 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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