

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: CCJFD
=== Responsible Party ===
Company Name:TADIRAN ELECTRONICS INDUSTRIES INC
Address:350 5TH AVE
City:NEW YORK
State:NY
ZIP:10118-0001
Country:US
Info Phon
e Num:408-727-0300
Emergency Phone Num:516-621-4980, 214-221-7523
CAGE:4J947

=== Contractor Identification ===
Company Name:TADIRAN ELECTRONICS INC.
Address:350 5TH AVENUE
Box:City:NEW YORK
State:NY
ZIP:10118-0001
Country:US
Phone:212-947-4600
CAGE:4J947

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

Ingred Name:THIONYL CHLORIDE
CAS:7719-09-7
RTECS #:XM5150000
Fraction by Wt: 40%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 1 PPM
ACGIH TLV:C 1 PPM; 9495

Ingred Name:LITHI

UM HYDRIDE (SARA 302)
CAS:7580-67-8
RTECS #:OJ6300000
Fraction by Wt: 5% %
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.025 MG/M3
ACGIH TLV:0.025 MG/M3; 9596

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 PLATE
D 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 E

XPOSED 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.

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===== 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. INH ALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET
MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GET ME
DICAL
ATTENTION.

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===== 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 1
50C,

INCINERATE, PUNCTURE, CRUSH, RECHARGE, OVERCHARGE OR SHORT CIRCUIT.

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

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

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:FOLLOWING SPECIFIED BY UL:" WARNING:
FIRE, EXPLOSION AND SEVERE HAZARD. D

O 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.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:ACID GAS FILTER MASK
Ventilation:LOCAL EXHAUST RECOMMENDED.
Protective Gloves:BUTYL RUBBER GLOVES
Eye Protection:CHEMICAL WORKER SAFETY GOGG
LES.

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.

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===== 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

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===== 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 ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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