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TADIRAN ELECTRONIC INDUSTRIES -- LITHIUM BATTERY,TL-2150 -- 6135-01-321-5512

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

Product ID:LITHIUM BATTERY,TL-2150

MSDS Date:10/28/1997

FSC:6135

NIIN:01-321-5512

MSDS Number: CFYGR === Responsible Party ===

Company Name: TADIRAN ELECTRONIC INDUSTRIES

Address:40 SEAVIEW BLVD City:PORT WASHINGTON

State:NY ZIP:11050 Country:US

Info Phone Num:516-621-4980

Emergency Phon e Num:800-786-4890

CAGE:0BYG1

=== Contractor Identification ===

Company Name: BATTERY MARKETING ASSN. (AKA: SUNN BATTERY CO.)

Address:1316 W ADAMS Box:City:JACKSONVILLE

State:FL ZIP:32204 Country:US

Phone:800-226-4508/904-354-4508

CAGE:1LWY3

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 ELECTRONICS INC.

Address:350 5TH AVENUE

Box:City:NEW YORK

State:NY

ZIP:10118-0001

Cou

ntry: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; 9596

Ingred Name:LITHIUM METAL

CAS:7439-93-2

RTECS #:OJ5540000 Fraction by Wt: 5%

Other REC Limits: NONE RECOMMENDED

Ingred Name: CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000 Fraction by Wt: 5%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:3.5

MG/M3

ACGIH TLV:3.5 MG/M3; 9596

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/NICKEL PLATED IRON

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 39%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3

Ingred Name: STAINLESS STEEL

Fraction by Wt: 2% Other REC Limits:

NONE RECOMMENDED

Ingred Name: GLASS/GLASS SEPARATOR Fraction by Wt: 1% Other REC Limits: NONE RECOMMENDED LD50 LC50 Mixture:LD50 (ORAL, RAT) IS UNKNOWN. Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic: NONE. WHEN EXPOSED TO INTERNAL CONTENT: TARGET ORGANS:EYES, SKIN, RESPIRATORY & GI TRACTS. ACUTE-BATTERY IS HERMETICALLY SEAL ED. IF BROKEN OR IN FIRE: INHALATION OF SULFUR DIOXIDE MAY CAUSE EYE & RES PIRATORY TRACT IRRITATION. INGESTION CANBE HARMFUL. CAN CAUSE SKIN IRRITATION. CHRONIC-UNKNOWN. Explanation of Carcinogenicity: CONTAINS NICKEL. Effects of Overexposure: NONE. IF BROKEN OR IN FIRE: IRRITATION, DRY THROAT AND COUGHING. Medical Cond Aggravated by Exposure: NONE First Aid:IF BROKEN/IN FIRE: GET MEDICAL HELP IF SYMPTOMS PERSI ST. INHALED: MOVE TO FRESH AIR. 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 INDUCEVOMITING OR GIVE FOOD/DRINK. SEEK IMMEDIATE MEDICAL ATTENTION. CALL NATIONAL BATTERY INGESTION HOTLINE FOR ADVICE & FOLLOWUP (202-625-3333). Flash Point:NONE Lower Limits: NOT RELEVANT Upper Limits:NOT RELEVANT Extinguishi ng 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 **RES**

PIRATORY EQUIPMENT SUITABLE FOR TOXIC GASES. SWEEP, SCOOP OR PICK UP SPILLED MATERIAL. TRANSFER TO A SUITABLE CONTAINER FOR DISPOSAL.
Neutralizing Agent:NOT RELEVANT
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Handling and Storage Precautions:VENTILATED AREAS EQUIPPED WITH SPRINKLER SYSTEM, AWAY FROM FLAMMABLES & WATER. WASH THOROUGHLY AFTER HANDLING. DO NOT HEAT ABOVE 100C/212F. Other Precautions:DO NOT INCINERATE. DO NOT TOUCH BROKEN OR LEAKING BAT
TERIES. 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 LEA KERS
Eye Protection:GOGGLES FOR LEAKERS
Other Protective Equipment:EYE BATH, WASHING FACILITIES Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.
Supplemental Safety and Health
=========== Physical/Chemical Properties ===========
HCC:Z6 NRC/State Lic Num:NOT RELEVANT Spec Gravity:NOT RELEVANT Viscosity:NOT RELEVANT Evaporation Rate & amp; Reference:NOT RELEVANT Solubility in Wate r:NOT RELEVANT Appearance and Odor:SOLID
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES WATER Stability Condition to Avoid:FIRE, HEAT ABOVE 150C/302F, MOISTURE, RECHARGING
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.

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