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## BREN-TRONICS INC -- LITHIUM/ MANGANESE DIOXIDE BATTERY, BT70241 -- 6135-01-383-0151

Product ID:LITHIUM/ MANGANESE DIOXIDE BATTERY, BT70241

MSDS Date:09/13/1993

FSC:6135

NIIN:01-383-0151

Status Code:A

MSDS Number: CKDRS === Responsible Party ===

Company Name: BREN-TRONICS INC

Address:10 BRAYTON CT

City:COMMACK

State:NY

ZIP:11725-3104

Country:US

Info Phone Num:516-

499-5155

Emergency Phone Num:301-948-4420

Preparer's Name: DON FAGON

CAGE:51828

=== Contractor Identification ===

Company Name: BREN-TRONICS INC

Address:10 BRAYTON CT

Box:City:COMMACK

State:NY

ZIP:11725-3104 Country:US

Phone:631-499-5155

CAGE:51828

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

Ingred Name:LITHIUM

CAS:7439-93-2

RTECS #:OJ5540000

Fraction by Wt: 6.0% GRAM

Ingred Name: MANGANESE DIOXIDE

CAS:1313-13-9

RTECS #:OP0350000

Fraction by Wt: 67.2% GMS

OSHA PEL:C5 MG/

M3 ACGIH TLV:5 MG/M3

Ingred Name: CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000

Fraction by Wt: 4.8% GRAMS

OSHA PEL:3.5 MG/M3 ACGIH TLV:3.5 MG/M3

Ingred Name:TEFLON

Fraction by Wt: 2.4% GRAMS

Ingred Name:PROPYLENE CARBONATE

CAS:108-32-7

RTECS #:FF9650000

Fraction by Wt: 3.0% GRAMS

Ingred Name: ETHYLENE CARBONATE

CAS:96-49-1

RTECS #:FF9550000

Fraction by Wt: 3.0% GRAMS

Ingred Name: DIMETHOXY ETHER

Fraction by Wt: 14.4% GMS

Other REC Limits: 3 PPM (MFR'S)

Ingred Name:LITHIUM TRIFLUOROMETHANE SULF

**ONATE** 

Fraction by Wt: 1.2% GRAMS

Other REC Limits: 0.1 MG/M3 (3M CO)

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:THESE CHEMICALS ARE CONTAINED IN A SEALED CAN. RISK OF EXPOSURE OCCURS ONLY IF THE BATTERY IS MECHANICALLY OR ELECTRICALLY ABUSED. THE MOST LIKELY RISK IS ACUTE

EXPOSURE WHEN A CELL VENTS PORPYLENE CARBO

NATE IS MILDLY IRRITATING UPON EYE AND SKIN CONTACT. DME IS BELIEVED TO BE SLIGHTLY TO MODERATELY TOXIC. CONTACT OF ELECTROLYTE AND EXTRUDED LITHIUM WITH SKIN AND EYES SHOULD BE AVOIDED. INHALAT ION OR INGESTION OF LITHIUM TRIFLUOROMETHANE SULFONATE MAY BE HARMFUL. Effects of Overexposure:IRRITATION OF SKIN OR EYES. LITHLUM CAN CAUSE THERMAL AND CHEMICAL BURNS UPON CONTACT WITH THE SKIN. DME MAY BE A REPRODUCTIVE HAZARD Medical Cond Aggravated by Exposure:AN ACUTE EXPOS URE WILL NOT GENERALLY AGGRAVATE ANY MEDICAL CONDITION.
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First Aid:IF LIQUID FROM LEAKER COMES IN CONTACT WITH SKIN, FLUSH IMMEDIATELY WITH WATER. FOR EYE CONTACT, FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES AND CONTACT PHYSICIAN. DO NOT INHALE VENTED MATERIAL. IF IRRITATION PERSISTS, GET MEDICAL HELP.
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Extinguishing Media:WATER Fire Fi
ghting Procedures:THE PREFERED PROCEDURE IS TO RAPIDLY COOL THE BATTERIES AND ADJACENT STRUCTURES WITH WATER Unusual Fire/Explosion Hazard:CELLS CAN VENT WHEN SUBJECTED TO EXCESSIVE HEAT. WHEN LARGE NUMBERS OF CELLS ARE INVOLVED IN A FIRE, FIRE FIGHTERS SHOULD USE SCBA.
========= Accidental Release Measures ===========
Spill Release Procedures:THE PREFERRED RESPONSE IS TO LEAVE THE AREA AND ALLOW BATTERIES TO COOL AND VAPORS TO DISSIPATE, AVOID SKIN AND F
YE CONTACT OR INHALATION OF VAPORS. REMOVE SPILLED LIQUID WITH ABSORBENT AND INCINERATE . PREFERABLY, CLEAN UP CREW SHOULD WEAR FULL-FACE RESPIRATOR ( PARTICULATE/ORGANIC VAPOR CARTRIDGE).
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Handling and Storage Precautions:AVOID MECHANICAL OR ELECTRICAL ABUSE. DO NOT ELECTRICALLY SHORT CIRCUIT OR ATTEMPT TO RECHARGE.

Other Precautions: AVOID INCINERATION OR MUTILATION, BATTERIES MAY

EXPLODE, PYROLIZE, OR VENT IF

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DISASSEMBLED, CRUSHED, RECHARGED OR EXPOSED TO FIRE OR HIGH TEMPERATURE. DO NOT SHORT OR INSTALL WITH INCORRECT POLARITY.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:SCBA (FIRE), FULL FACE RESPIRTOR WITH PARTICULATE/ORGANIC CARTRIDGE (SPILL).  Ventilation:IN CASE OF VENTING, PROVIDE AS MUCH VENTILATION AS POSSIBLE.  Protective Gloves:BUTYL  Eye Protection:SAFETY GLASSES  Supplemental Safety and Health  DO NOT SHORT CIRCUIT.
======= Physical/Chemical Properties =========
HCC:Z6 Melt/Freeze Pt:M.P/F.P Text:180C LITHIUM Spec Gravity:0.54 LI Evaporation Rate & DME -4.99 Appearance and Odor:BATTERY PACK, SEALED.
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES Stability Condition to Avoid:DO NOT HEAT, DISASSEMBLE, OR RECHARGE.
======= Disposal Considerations ==========
Waste Disposal Methods:IN ACCORDANC E WITH LOCAL, STATE AND FEDERAL REGULATIONS, USUALLY MAY BE DISPOSED OF IN SECURED LANDFILL. OPEN CELLS SHOULD BE TREATED AS HAZARDOUS WASTE.
========= MSDS Transport Information ===========
Transport Information:NO INORMATION PROVIDED
=========== Other Information =============
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