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

Product ID:BT70241 LITHIUM/MANGANESE DIOXIDE BATTERY

MSDS Date:09/13/1993

FSC:6135

NIIN:01-383-0151

MSDS Number: BZGDD === 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:516-499-5155

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%

Ingred Name:MANGANESE DIOXIDE, MANGANESE PEROXIDE *96-2*

CAS:1313-13-9

RTECS #:OP0350000 Fraction by Wt: 67.2% OSHA PEL:5 MG/CUM ACGIH TLV:5 MG/CUM

Ingr

ed Name: COLUMBIA CARBON, CARBON BLACK, LAMPBLACK, BLACK PEARLS (IARC CARC GROUP 3) - *96-2* CAS:1333-86-4 RTECS #:FF5800000 Fraction by Wt: 4.8% Other REC Limits: 3.5 MG/CUM (NIOSH) OSHA PEL:3.5 MG/CUM ACGIH TLV:3.5 MG/CUM Ingred Name: TETRAFLUOROETHYLENE, TFE, TEFLON *96-2* CAS:116-14-3 RTECS #:KX4000000 Fraction by Wt: 2.4% Ingred Name:1,3-DIOXOLAN-2-ONE, 4-METHYL-DIPROPLYENE CARBONATE, PROPYLENE CARBONATE, CARBONIC ACID, CYCLIC PROPYLENE ESTER CAS:108-32-7 RTECS #:FF9650000 Fr action by Wt: 3% Ingred Name: ETHYLENE CARBONATE *96-2* CAS:96-49-1 RTECS #:FF9550000 Fraction by Wt: 3% Ingred Name: DIMETHOXY ETHER Fraction by Wt: 14.4% Ingred Name:LITHIUM TRIFLUOROMETHANESULFONATE CAS:33454-82-9 Fraction by Wt: 1.2% ========== 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: DIMETHOXY ETHER: SLIGHT TO MODERATELY XIC. CONTACT OF ELECTROLYTE & EXTRUDED LITHIUM W/SKIN & EYES SHOULD BE AVOIDED. INHALATION/INGESTION OF LITHIUM TRIFLUOROMETHANE SULFONATE MAY BE HARMFUL. PROPY LENE CARBONATE: MILDLY IRRITATING TO EYES/SKIN. **Explanation of Carcinogenicity:NONE**

Explanation of Carcinogenicity:NONE Effects of Overexposure:IRRITATION, TOXIC.

First Aid:SKIN: FLUSH IMMEDIATELY W/WATER. EYES: FLUSH W/COPIOUS AMOUNTS OF WATER FOR 15 MINS. INHALATION: DON'T INHALE VENTE

D

MATERIAL. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Flash Point Method:CC Flash Point:21.2F (SUPP)

Lower Limits: 2.3 (SUPP)

Extinguishing Media:WATER

Fire Fighting Procedures: THE PREFERRED PROCEDURE IS TO RAPIDLY COOL THE BATTERIES & ADJACENT STRUCTURES W/WATER. WEAR SCBA.

Unusual Fire/Explosion Hazard: CELLS CAN VENT WHEN SUBJECTED TO EXCESSIVE HEAT.

Spill Release Procedures:LEAVE THE AREA & ALLOW BATTERIES TO COOL & VAPORS TO DISSIPATE. AVOID SKIN/EYE CONTACT/INHALATION OF VAPORS. REMOVE LIQUID W/ABSORBENT & INCINERATE. CLEAN UP CREW-WEAR FULL-FACE RESPIRATOR (PARTICULAT E/ORGANIC VAPOR CARTRIDGE).

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

Handling and Storage Precautions: AVOID MECHANICAL, PHYSICAN/ELECTRICAL ABUSE. DON'T SHORT/INTALL W/INCORRECT POLARITY.

Other Precautions: BATTERIES MAY EXPLO

DE, PYROLIZE/VENT IF DISASSEMBLED,

CRUSHED, RECHARGED/EXPOSED TO FIRE/HIGH TEMP. AVOID SKIN & EYE CONTACT & INHALATION OF VAPORS.

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

Respiratory Protection:WEAR SCBA, FULL-FACE RESPIRATOR W/PARTICULATE/ORGANIC CARTRIDGE.

Ventilation: IN CASE OF VENTING, PROVIDE AS MUCH VENTILATION AS POSSIBLE.

Protective Gloves:BUTYL

Eye Protection:SAFETY GLASSES Other Protective Equipment:NONE Supplemental Safety and Health BOILIN G POINT, VAPOR PRESSURE, SOLUBILITY, SPECIFIC GRAVITY, EVAPORATION RATE, APPEARANCE & VAPOR DENSITY. FLASH POINT INFORMATION IS FOR DIMETHOXY ETHER. FLAMMABLE LIMITS INFORMATION IS FOR PROPYLENE CARBONATE.

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

HCC:F8

Boiling Pt:B.P. Text:185F (SUPP)

Melt/Freeze Pt:M.P/F.P Text:356F (SUPP)

Vapor Pres:61 (SUPP)

Vapor Density:3.1

Spec Gravity: 0.868 (SUPP)

Evaporation Rate & Reference: (BU AC =1): 4.99 (SUPP)

Solubili

ty in Water:COMPLETE

Appearance and Odor:DIMETHOXY ETHER IS A COLORLESS LIQUID W/SWEET ODOR.

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

Stability Indicator/Materials to Avoid:YES Stability Condition to Avoid:HEAT, DISASSEMBLE/RECHARGE

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

Waste Disposal Methods:DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS. OPEN CELLS SHOULD BE TREATED AS HAZARDOUS WASTE. UN3090.

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