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FUJI ELECTROCHEMICAL CO LTD -- DL 2016 BATTERY -- 6135-01-314-8415
========== Product Identification ==========

Product ID:DL 2016 BATTERY
MSDS Date:06/12/1997
FSC:6135
NIIN:01-314-8415
Status Code:A
MSDS Number: CKPVQ
=== Responsible Party ===
Company Name:FUJI ELECTROCHEMICAL CO LTD
Address:HAMAGOMU BLDG 5-36-11 SHIMBASH MINATO-KU
City:TOKYO 105
Country:JA
Info Phone Num:203-796-4000 (IMPORTER)
Emergency
Phone Num:203-796-4575 (JEFF BLAKE)
CAGE:S7173
=== Contractor Identification ===
Company Name:FUJI ELECTROCHEMICAL CO LTD
Address:HAMAGOMU BLDG 5-36-11 SHIMBASH MINATO-KU
Box:City:TOKYO 105
Country:JA
Phone:203-796-4000 (IMPORTER)
CAGE:S7173

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

Ingred Name:LITHIUM
CAS:7439-93-2
RTECS #:OJ5540000
= Wt:1.3

Ingred Name:MANGANESE DIOXIDE
CAS:1313-13-9
RTECS #:OP0350000
= Wt:15.
OSHA PEL:C5 MG/M3
ACGIH TLV:5 MG/M3

Ingred Name:GRAP

HITE
CAS:7782-42-5
RTECS #:MD9659600
= Wt:1.5
OSHA PEL:SEE TABLE Z-3
ACGIH TLV:2 MG/M3

Ingred Name:PROPYLENE CARBONATE
CAS:108-32-7
RTECS #:FF9650000
= Wt:3.

Ingred Name:DIMETHOXYETHANE
= Wt:1.5
Other REC Limits:3 MG/M3

Ingred Name:LITHIUM PERCHLORATE
CAS:7791-03-9
= Wt:.3

========== 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:ACUTE/CHR
ONIC: THESE CHEMICALS ARE
CONTAINED IN A SEALED CAN. RISK OF EXPOSURE OCCURS ONLY IF THE BATTERY IS MECHANICALLY, PHYSICALLY OR ELECTRICALLY ABUSED. THE MOST LIKELY RISK IS ACUTE EXPOSURE WHE N A CELL LEAKS. DME IS BELIEVED TO BE SLIGHTLY TO MODERATELY TOXIC. CONTACT OF ELECTROLYTE & EXTRUDED LITHIUM WITH SKIN & EYES SHOULD BE AVOIDED. INHALATION OR INGESTION OF LITHIUM TRIFLUOROMETHANE SU LFONATE MAY BE HARMFUL.
Effects of Overexposure:IRRITATION OF SKIN & EYES. LITHIUM
CAN CAUSE
THERMAL & CHEMICAL BURNS UPON CONTACT WITH THE SKIN. DME MAY BE A REPRODUCTIVE HAZARD.
Medical Cond Aggravated by Exposure:AN ACUTE EXPOSURE WILL NOT
GENERALLY AGGRAVATE ANY MEDICAL CONDITION.

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

First Aid:IF LEAKAGE FROM A CELL CONTACTS THE SKIN, FLUSH IMMEDIATELY WITH WATER. FOR EYE CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 15 MINS & SEE PHYSICIAN AT ONCE. DO NOT INHALE VENTED MATERIAL.

IF IRRI TATION PERSISTS, GET MEDICAL HELP.

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

Extinguishing Media:WATER.
Fire Fighting Procedures:THE PREFERRED PROCEDURE IS TO RAPIDLY COOL THE BATTERIES & ADJACENT STRUCTURES WITH WATER. CELLS CAN VENT WHEN SUBJECTED TO EXCESSIVE HEAT. WHEN LARGE NUMBERS OF CELLS ARE INVOLVED IN A FIRE, FIREFIGH TERS SHOULD USE SCBA.

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

Spill Release Procedures:THE
PREFERRED RESPONSE IS TO LEAVE THE AREA & ALLOW BATTERIES TO COOL & VAPORS TO DISSIPATE. AVOID SKIN & EYE CONTACT. DO NOT INHALE VAPORS. REMOVE SPILLED LIQUID WITH ABSORBENT & INCINERATE. PREFERAB LY, CLEANUP CREW SHOULD WEAR FULL-FACE RESPIRATOR (PARTICULATE/ORGANIC VAPOR CARTRIDGE).

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

Handling and Storage Precautions:AVOID MECHANICAL OR ELECTRICAL ABUSE.
Other Precautions:BATTERIES MAY EXPLODE, PYROLIZE, OR VE
NT IF DISASSEMBLED, CRUSHED, RECHARGED OR EXPOSED TO FIRE OR HIGH TEMPERATURES. DO NOT SHORT OR INSTALL WITH INCORRECT POLARITY.

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

Respiratory Protection:SCBA (FIRE); FULL-FACE RESPIRATOR WITH PARTICULATE/ORGANIC CARTRIDGE (SPILL).
Ventilation:INCASE OF VENTING, PROVIDE AS MUCH VENTILATION AS POSSIBLE.
Protective Gloves:BUTYL.
Eye Protection:SAFETY GLASSES WHEN HANDLING LEAKERS.
Other Protective Equipment:NONE.
Suppl
emental Safety and Health
HEALTH HAZARD DATA: THESE CHEMICALS & METALS ARE CONTAINED IN A SEALED CAN. POTENTIAL FOR EXPOSURE SHOULD NOT EXIST UNLESS THE BATTERY LEAKS, IS EXPOSED TO HIGH TEMPERATURE, IS ACCIDENTALLY SWALLOWED OR IS MECHANICALLY, PHYSICALLY OR ELECTRICALLY ABUSED.

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

HCC:Z6
Boiling Pt:=85.C, 185.F
B.P. Text:DME
Vapor Pres:61 (DME)
Vapor Density:3.1 (DME)
Spec Gravity:0.87 (DME)
pH:C/CE?. PLEASE F
Sol

ubility in Water:COMPLETELY SOLUBLE (DME)
Appearance and Odor:DME IS A COLORLESS LIQUID WITH A SWEET ODOR. PC IS ODORLESS & COLORLESS LIQUID.

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

Stability Indicator/Materials to Avoid:YES
Stability Condition to Avoid:DO NOT HEAT, DISASSEMBLE, RECHARGE OR SHORTED.
Conditions to Avoid Polymerization:WILL NOT OCCUR

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

Waste Disposal Methods:DISPOSE OF IN ACCO
RDANCE WITH APPLICABLE
REGULATIONS. OPEN CELLS SHOULD BE TREATED AS HAZARDOUS WASTE. DISCHARGED CELLS ARE NON-HAZARDOUS & NON-REACTIVE & CAN BE DISPOSED OF, IN SMALL QUANTITIES, WITH NORMAL HOUSEHOLD TRASH. THESE BATTERIES ARE CONSIDERED TO BE NON-HAZARDOUS WASTE.