

MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-443/4437-85-8.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
4437-85-8

Code:
M

RTECS:
J14582000

Code:
M

Name:
4-ETHYL-1,3-DIOXOLAN-2-ONE (BUTYLENE CARBONATE)

Other REC Limits:
NONE RECOMMENDED 3

OSHA PEL:
NOT ESTABLISHED

Code:
M

OSHA STEL:

Code:

ACGIH TLV:
NOT ESTABLISHED

Code:
M

ACGIHSTEL:
N/P

Code:

Control Measures

Respiratory Protection:
NOT NESCESSARY UNDER CONDITIONS OF NORMAL USE.

Ventilation:
NOT NESCESSARY UNDER CONDITIONS OF NORMAL USE.

Protective Gloves:
NOT NESCESSARY UNDER CONDITIONS OF NORMA

Eye Protection:
NOT NESCESSARY UNDER CONDITIONS OF NORMA

Other Protective Equipment:
Equipment NOT NESCESSARY UNDER CONDITIONS OF NORMAL USE.

Work Hygienic Practices:
MFR:? HMIS:USE GOOD INDUSTRIAL HYGIENE PRACTICE. IF HANDLING LEAKING BATTERIES USE STRICT CHEMICAL HYGIENE PRACTICE.

Supplemental Safety and Health:
AVOID ALL CONTACT W/BATTERY INTERNALS. WASH THOROUGHLY AFTER HANDLING. 6

Health Hazards Data

LD50LC50Mixture:
LD50 (ORAL RAT) IS UNKNOWN

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
YES

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
CHEMICALS ARE IN A SEALED CAN. EXPOSURE OCCURS WHEN BATTERY HAS BEEN ABUSED. DME IS SLIGHTLY TO MODERATELY TOXIC. EC & BC ARE IRRITATING TO EYES. LICF3SO3 IS IRRITATING TO SKIN, EYES & MUCOUS MEMBRAN ES. CONTACT OF ELECTROLYTE & EXTRUDED LITHIUM W/SKIN & EYES SHOULD BE AVOIDED.

Explanation Of Carcinogenicity:
MFR GAVE THE ABOVE LISTINGS ON THE MSDS BUT NO OTHER COMMENTS WERE RECORDED. 4

Signs And Symptions Of Overexposure:
DMD MAY BE A REPRODUCTIVE HAZARD. LITHIUM CAN CAUSE THERMAL & CHEMICAL BURNS ON CONTACT W/SKIN.

Medical Cond Aggravated By Exposure:
AN ACUTE EXPOSURE WILL GENERALLY NOT AGGRAVATE ANY MEDICAL CONDITION.

First Aid:
FOR CONTACT OF BATTERY INTERNALS WITH-SKIN:FLUSH IMMEDIATELY W/WATER. -EYES:FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. DO NOT INHALE VENTED MATE RIAL.

Spill Release Procedures:
THE PREFERRED RESPONSE IS TO LEAVE AREA AND ALLOW BATTERIES TO COOL AND VAPORS TO DISSIPATE. AVOID SKIN & EYE CONTACT OR INHALATION OF VAPORS. REMOVE SPILLED LIQUID W/ABSORBENT & INCINERATE.

Neutralizing Agent:
MFR GAVE NO INFORMATION ON MSDS.

Waste Disposal Methods:
DISPOSE OF IN ACCORDANCE WITH APPROPRIATE REGULATIONS. OPEN CELLS SHOULD BE TREATED AS HAZARDOUS WASTE.

Handling And Storage Precautions:
AVOID MECHANICAL OR ELECTRICAL ABUSE.

Other Precautions:
BATTERIES MAY EXPLODE OR CAUSE BURN. IF DISASSEMBLED, CRUSHED, RECHARGED OR EXPOSED TO FIRE OR HIGH TEMPERATURE. DO NOT SHORT NOR INSTALL W/INCORRECT POLARITY.

Fire and Explosion Hazard Information

Flash Point Method:
N/P

Flash Point:

Flash Point Text:
NONE

Autoignition Temp:

Autoignition Temp Text:
N/A 5

Lower Limits:
UNKNOWN

Upper Limits:
UNKNOWN

Extinguishing Media:
WATER

Fire Fighting Procedures:
IN CASE OF FIRE IN AN ADJACENT AREA, USE WATER, CO2 OR SRY CHEMICAL EXTINGUISHERS IF CELL ARE PACKED IN THEIR ORIGIONAL CONTAINERS SINCE THE FUEL IS PAPER.

Unusual Fire/Explosion Hazard:
FOR BULK QUANTITIES OF UNPACKAGED CELL US LITH-X (GRAPHITE BASE). IN THIS CASE USE NO WATER.

Physical/Chemical Properties

HCC:
F8

NRC/State LIC No:
NONE

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
UNKNOWN

Melt/Freeze Pt:

M.P/F.P Text:
UNKNOWN

Decomp Temp:

Decomp Text:
UNKNOWN

Vapor Pres:
UNKNOWN

Vapor Density:
UNKNOWN

Volatile Org Content %:

Spec Gravity:
UNKNOWN

VOC Pounds/Gallon:

PH: UNKNON

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
UNKNOWN

Solubility in Water:
UNKNOWN

Appearance and Odor:
SEALED NON-RECHAGABLE BATTERY.

Percent Volatiles by Volume:
N/K

Corrosion Rate:
UNKNOWN

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
DO NOT HEAT, DIASSEMBLE OR RECHARGE.

Materials To Avoid:
MFR GAVE NO INFORMATION ON MSDS.

Hazardous Decomposition Products:
N/A

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
WILL NOT OCCUR.

Toxicological Information

Information:N/P

MSDS Transport Information

Information:N/P

Regulatory Information

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information

Other Information:N/P



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