

BATTERY ENGINEERING INC -- 655135-003 LITHIUM THIONYL CHLORIDE CELL -- 6135-01-327-0279
===== Product Identification =====

Product ID:655135-003 LITHIUM THIONYL CHLORIDE CELL

MSDS Date:07/09/1999

FSC:6135

NIIN:01-327-0279

Status Code:A

MSDS Number: CJRGP

=== Responsible Party ===

Company Name:BATTERY ENGINEERING INC

Address:100 ENERGY DRIVE

City:CANTON

State:MA

ZIP:02021

Country:US

Info Phone Num

:781-575-0800

Emergency Phone Num:800-255-1545(CHEMTEL)

CAGE:60289

=== Contractor Identification ===

Company Name:BATTERY ENGINEERING INC

Address:100 ENERGY DRIVE

Box:City:CANTON

State:MA

ZIP:02021

Country:US

Phone:781-575-0800

CAGE:60289

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

Ingred Name:LITHIUM

CAS:7439-93-2

RTECS #:OJ5540000

= Wt:4.

Ingred Name:THIONYL CHLORIDE

CAS:7719-09-7

RTECS #:XM5150000

= Wt:39.5

ACGIH STEL:C4.9 MG/M3;C1 PPM

Ingred Name:ALUMINUM CHLORID

E
CAS:7446-70-0
RTECS #:BD0525000
= Wt:6.5

Ingred Name:LITHIUM CHLORIDE
CAS:7447-41-8
RTECS #:OJ5950000
= Wt:2.

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: VAPOR VERY IRRITATING TO SKIN,
EYES, AND MUCOUS MEMBRANES. CHRONIC: OVEREXPOSURE CAN CAUSE
SYMPTOMS OF NON-FIBROTIC LUNG INJURY.

Explanation of Carcinogenicity:
NONE LISTED.

Effects of Overexposure:EYE AND MUCOUS MEMBRANE IRRITATION.
Medical Cond Aggravated by Exposure:ASTHMA, OTHER RESPIRATORY
DISORDERS, SKIN ALLERGIES, AND ECZEMA.

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

First Aid:EYE: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS
APART. SEEK IMMEDIATE MEDICAL TREATMENT. SKIN: RINSE WIT LARGE
AMOUNTS OF RUNNING WATER. IF BURNS DEVELOPS, SEEK MEDICAL
TREATMENT. INHALE: REMOVE TO FRESH AIR. IF BREAT
HING IS DIFFICULT,
ADMINISTER OXYGEN AND SEEK MEDICAL TREATMENT. INGEST: SEEK MEDICAL
TREATMENT.

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

Extinguishing Media:DRY LITHIUM CHLORIDE,GRAPHITE POWDER,PYRENE
G-1,LITH-X,CLASS D
Fire Fighting Procedures:COVER WITH DRY LITHIUM CHLORIDE,GRAPHITE
POWDER,LITH-X POWDER OR CLASS D FIRE EXTINGUISHER. DO NOT USE
WATER,MOIST SAND,CARBON DIOXIDE OR SODA ASH EXTINGUISHER.WEAR
PROTECTIVE BREATHING APPARATUS.

Unu

sual Fire/Explosion Hazard:DO NOT SHORT CIRCUIT,RECHARGE,OVER
DISCHARGE,PUNCTURE,CRUSH OR EXPOSE TO TEMPERATURES ABOVE 100C.

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

Spill Release Procedures:DO NOT BREATHE VAPORS OR TOUCH LIQUID WITH
BARE HANDS.

Neutralizing Agent:SODA LIME.

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

Handling and Storage Precautions:DO NOT SHORT CIRCUIT OR EXPOSE TO
TEMPERATURE ABOVE 100C. DO NOT RECHARGE, OVERD
ISCHARGE, PUNCTURE,
OR CRUSH.

Other Precautions:DO NOT STORE BATTERIES IN HIGH HUMIDITY ENVIRONMENTS
FOR LONG PERIODS.

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

Respiratory Protection:ACID GAS FILTER MASK

Ventilation:LOCAL EXHAUST

Protective Gloves:BUTYL RUBBER

Eye Protection:CHEMICAL WORKER SAFETY GLASSES

Other Protective Equipment:XHEMICAL LABORATORY SAFETY GLASSES AND
CHEMICAL APRON

Supplemental Safety and Health

===== Physical/Chemical P
roperties =====

HCC:Z6

Boiling Pt:=77.C, 170.6F

Melt/Freeze Pt:=-105.C, -157.F

Vapor Pres:92MM@20C

Vapor Density:4.1

Spec Gravity:1.63

Solubility in Water:DECOMPOSES

Appearance and Odor:THIONYL CHLORIDE-COLORLESS TO PALE
YELLOW,SHARP,PUNGENT ODOR.

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

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:TEMPERATURES IN EXCESS OF 100C.HIGH
HUMIDITY FOR EXTENDED PERIODS.

Hazardous Decomposit

ion Products:SULFUR DIOXIDE,HYDROGEN CHLORIDE

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

Waste Disposal Methods:NEUTRALIZE SPILL WITH SODA LIME, SEAL LEAKING BATTERIES AND SODA LIME IN PLASTIC BAG AND DISPOSE OF AS HAZARDOUS WASTE.

===== MSDS Transport Information =====

Transport Information:DOT, IATA/ICAO: PROPER SHIPPING NAME: LITHIUM BATTERIES. UN3090. HAZARD CLASS: 9. PACKING GROUP II.

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