

## 14-48 LITHIUM/THIONYL CHLORIDE BATTERY

#### **MSDS Number**

**BNBLT** 

#### **National Stock Number**

6135-00N028842

#### **Product Name**

14-48 LITHIUM/THIONYL CHLORIDE BATTERY

#### Manufacturer

BATTERY ENGINEERING INC

## **Product Identification**

Product ID:14-48 LITHIUM/THIONYL CHLORIDE BATTERY MSDS Date:09/04/1991 FSC:6135

NIIN:00N028842 MSDS Number: BNBLT

## **Responsible Party**

BATTERY ENGINEERING INC

1636 HYDE PARK AVE

HYDE PARK, MA 02136

US

Emergency Phone: 617-361-7555

Info Phone: 617-361-7555

Cage: 60289

# Contractor

BATTERY ENGINEERING INC

CANTON, MA 02021

781-575-0800

US

Cage: 60289

#### **Ingredients**

LITHIUM; (LITHIUM - CONTENT 0.64 GRAMS)

CAS: 7439-93-2 RTECS: OJ5540000 Fraction By Weight: 4%

THIONYL CHLORIDE

CAS: 7719-09-7

RTECS: XM5150000

Fraction By Weight: 39.5%

OSHA PEL1 PPM, C ACGIH TLV: 1 PPM, C

ALUMINUM CHLORIDE



CAS: 7446-70-0 RTECS: BD0525000

Fraction By Weight: 6.5%

LITHIUM CHLORIDE
CAS: 7447-41-8
RTECS: OJ5950000

Fraction By Weight: 2%

**CARBON** 

CAS: 7440-44-0 RTECS: FF5250100

Fraction By Weight: 4.7% OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 2 MG/M3 TDUST; 9293

STAINLESS STEEL

Fraction By Weight: 42.5%

NICKEL (SARA III)

CAS: 7440-02-0 RTECS: QR5950000

Fraction By Weight: 0.4%

OSHA PEL1 MG/M3 ACGIH TLV: 1 MG/M3

PAPER/FILM; (PAPER) Fraction By Weight: 0.4%

#### **Hazards**

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation: YES Skin: NO Ingestion: NO Reports of Carcinogenicity: NTP: YES IARC: YES OSHA: NO

Health Hazards Acute and Chronic:ACUTE: VAPORS VERY IRRITATING TO SKIN, EYES AND MUCOUS MEMBRANES. CHRONIC: OVEREXPOSURE CAN CAUSE SYMPTOMS

OF NONFIBROTIC LUNG INJURY.

Explanation of Carcinogenicity:NICKEL:GROUP 2 (NTP), GROUP 2B (IARC)

Effects of Overexposure:SEE HEALTH HAZARDS.

Medical Cond Aggravated by Exposure: ASTHMA, OTHER RESPIRATORY DISORDERS, SKIN ALLERGIES, ECZEMA.

# First Aid

First Aid:SEEK MEDICAL ASSISTANCE FOR FURTHER TREATMENT, OBSERVATION AND SUPPORT IF NECESSARY. EYES: FLUSH W/RUNNING WATER FOR AT LEAST 15 MIN. HOLD EYELIDS APART. SEEK IMMED MEDICAL TREATMENT. SKIN: RINSE W/LA RGE AMOUNTS OF RUNNING WATER. IF BURNS DEVELOP, SEEK MEDICAL TREATMENT. INHAL: REMOVE TO FRESH AIR. IF BRTHG IS DFCLT, ADMINISTER O2 AND SEEK MEDICAL TREATMENT. INGEST: CALL MD IMMEDIATELY.



## Fire Fighting

Extinguishing Media: DRY LITHIUM CHLORIDE, GRAPHITE POWDER, PYRENE G-1,

Fire Fighting Procedures: WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP . COVER W/DRY LITHIUM CHLORIDE OR LITH-X POWDER, DO NOT USE WATER. MOIST SAND, CO2 OR SODA-ACID EXTING. Unusual Fire/Explosion Hazard: DO NOT SHORT CIRCUIT, RECHARGE,

OVERDISCHARGE, PUNCTURE, CRUSH OR EXPOSE TO TEMPERATURES ABOVE 100C.

#### **Accidental Release**

Spill Release Procedures: DO NOT BREATHE VAPORS OR TOUCH LIQUID W/BARE HANDS. NEUTRALIZE SPILL W/SODA LIME, SEAL LEAKING BATTERY AND SODA LIME IN PLASTIC BAG AND DISPOSE OF AS HAZARDOUS WASTE. Neutralizing Agent: SODA LIME.

## Handling

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

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

#### **Exposure Controls**

Respiratory Protection: NIOSH/MSHA APPROVED ACID GAS FILTER MASK.

Ventilation: LOCAL EXHAUST.

Protective Gloves: BUTYL RUBBER GLOVES. Eye Protection: CHEMICAL WORKERS GOGGLES .

Other Protective Equipment: CHEMICAL LABORATORY GARMENTS. EMERGENCY EYE WASH & DELUGE SHOWER.

Supplemental Safety and Health

BOILING POINT: SOCL2: 171F, 77C. SPECIFIC GRAVITY: SOCL2: 1.63 (H2O=1).

VAPOR PRESSURE: SOCL2: 92 @ 20C.

#### **Chemical Properties**

HCC:N1

Boiling Pt:B.P. Text:SUPDAT

Melt/Freeze Pt:M.P/F.P Text:-157F,-105C

Vapor Pres:SUPDAT Vapor Density:SOCL2:4.1 Spec Gravity: SUPDAT

Solubility in Water: SOCL2: DECOMPOSES

Appearance and Odor: SOCL2: COLORLESS TO PALE YELLOW; SHARP, IRRITATING

ODOR.

#### Stability

Stability Indicator/Materials to Avoid:YES SOCL2 HYDROLYZES IN WATER TO FORM SO2 & HCL. Stability Condition to Avoid: TEMPERATURE IN EXCESS OF 100C. HIGH

HUMIDITY FOR EXTENDED PERIODS OF TIME.

Hazardous Decomposition Products: SULFUR DIOXIDE, HYDROGEN CHLORIDE.

#### Disposal

Waste Disposal Methods: DISPOSE OF AS HAZARDOUS WASTE I/A/W FEDERAL, STATE, AND LOCAL REGULATIONS .

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