

## 化 学 品 安 全 技 术 说 明 书

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### MSDS标题

LITHIUM DEUTERIDE MSDS报告

### 产品标题

氘化锂

### CAS号

13587-16-1

### 化学品及企业标识

## PRODUCT NAME

LITHIUM DEUTERIDE

## NFPA

Flammability	2
Toxicity	2
Body Contact	4
Reactivity	2
Chronic	2
SCALE: Min/Nil=0 Low=1 Moderate=2 High=3 Extreme=4	

## PRODUCT USE

Reducing agent for introduction of deuterium ion; thermonuclear fusion.

## **SYNONYMS**

D-Li, D-Li, LiD

## **CANADIAN WHMIS SYMBOLS**

## **EMERGENCY OVERVIEW**

### **RISK**

Causes severe burns.

Risk of serious damage to eyes.

Reacts violently with water liberating extremely flammable gases.

Flammable.

## **POTENTIAL HEALTH EFFECTS**

### **ACUTE HEALTH EFFECTS**

#### **SWALLOWED**

The material can produce severe chemical burns within the oral cavity and gastrointestinal tract following ingestion. Ingestion may result in nausea, abdominal irritation, pain and vomiting. Lithium, in large doses, can cause dizziness and weakness. If a low salt diet is in place, kidney damage can result. There may be dehydration, weight loss, skin effects and thyroid disturbances. Central nervous system effects include slurred speech, blurred vision, numbness, inco-ordination and convulsions. Repeated exposure can cause diarrhea, vomiting, tremor, muscle jerks and very brisk reflexes.

#### **EYE**

The material can produce severe chemical burns to the eye following direct contact. Vapors or mists may be extremely irritating. If applied to the eyes, this material causes severe eye damage.

#### **SKIN**

The material can produce severe chemical burns following direct contact with the skin. Solution of material in moisture on the skin, or perspiration, may markedly increase skin corrosion and accelerate tissue destruction.

#### **INHALED**

If inhaled, this material can irritate the throat and lungs of some persons. Inhalation of quantities of liquid mist may be extremely hazardous, even lethal due to spasm, extreme irritation of larynx and bronchi, chemical pneumonitis and pulmonary edema. Persons with impaired respiratory function,

airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.

## **CHRONIC HEALTH EFFECTS**

Principal routes of exposure are by accidental skin and eye contact and inhalation of generated dusts. Lithium compounds can affect the nervous system and muscle. This can cause tremor, incoordination, spastic jerks and very brisk reflexes. They may cause birth defects and should not be used when pregnancy is suspected. They are effective in treating manic episodes of bipolar disorder. Restricting sodium in the diet increases the risks of taking lithium.

Xinya