

# SAFETY DATA SHEET

## LITHIUM DODECYL SULFATE

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.  
5480 Mainway  
Burlington, Ontario L7L 6A4  
1-800-234-1179  
Emergency Telephone No.: 905-466-3832  
Chemical Name: Lithium dodecyl sulfate  
Synonym: N/A  
Catalog Number: LDS701

Molecular formula: C12H25LiO4S  
Molecular weight: 272.33 g/mol

	CAS #	EC-No.	%
Lithium dodecyl sulfate	2044-56-6	218-058-2	100

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS Classification

#### CLASSIFICATION:

Flammable solid, Category 2  
Skin irritant Category 2  
Serious Eye damage category 1  
Specific target organ toxicity-single exposure, 3

#### PICTOGRAM:



**SIGNAL WORD:** Danger

#### HAZARD STATEMENTS:

H228-Flammable solid  
H315- Causes skin irritation  
H318- Causes serious eye damage  
H335- May cause respiratory irritation

#### PRECAUTIONARY STATEMENTS:

P210-Keep away from heat/sparks/open flames/hot surfaces.  
P261- Avoid breathing dust/fume/gas/mist/vapors/spray  
P280-wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338- if in eyes: rinse cautiously with water for several minutes. remove contact lenses if present and easy to do. Continue rinsing.

#### Potential Health Effects:

Inhalation: harmful if inhaled.  
Skin: harmful if absorbed through skin  
Eyes: Causes eye irritation  
Ingestion: harmful if ingested

### SECTION 3 COMPOSITION/ INGREDIENTS

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water. Consult a physician.  
**Skin:** In case of contact, flush area immediately with water. Get medical aid if irritation persists.  
**Inhalation:** Remove victim to fresh air. If breathing becomes difficult, give oxygen. Consult a physician..  
**Ingestion:** Wash mouth with water. Do NOT induce vomiting. Consult a physician if you feel unwell.

### SECTION 5 FIRE FIGHTING MEASURES

**Flammability:** Flammable solid. Keep away from heat/sparks/open flame/hot surface  
**Flash Point:** >100C  
**Autoignition Temperature:** not determined  
**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.  
**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions:

Ventilate the area. Wear appropriate protective equipment. Avoid contact with skin, eyes and clothing.

#### Methods for containment and clean up:

If safe to do so, contain further leakage. Sweep and place in a closed container. Avoid sources of ignition and electrostatic charge. Dispose according to local regulations.

### SECTION 7 HANDLING AND STORAGE

**Handling:** Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

**Storage Conditions:** Room temperature. Keep cool and dry.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure limits:

ACGIH, NIOSH, OSHA, none listed  
Use adequate ventilation. Avoid dust generation..

**Personal protective Equipment:** Wear appropriate safety glasses and protective gloves/clothing. Use approved NIOSH respirator.

**Engineering Measures:** eye wash stations, ventilation systems, showers

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. wash hands before and after handling product.

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### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** fine white powder  
**Odor:** no information found  
**Odor Threshold:** : no information found  
**Melting Point:** no information found  
**Boiling Point:** no information found  
**Specific Gravity:** no information found  
**Vapor Density:** no information found  
**Vapor pressure:** no information found  
**Water Solubility:** soluble  
**pH:** no information found  
**Flammability:** flammable solid  
**Flash point:** no information found  
**Ignition temperature:** no information found  
**Autoignition temperature:** no information found  
**Lower explosion limit:** no information found  
**Upper explosion limit:** no information found

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable at normal room temperature and pressure  
**Conditions to avoid:** dust generation  
**Incompatibility** strong oxidizing agents.  
**Hazardous Decomposition Products:** carbon oxides and sulfur oxides.  
**Hazardous Polymerization:** Has not been reported

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

LD50/LC50: no data found

**Epidemiology:** No data available  
**Teratogenicity:** No data available  
**Reproductive Effects:** No data available  
**Neurotoxicity:** No data available  
**Mutagenicity:** No data available  
**Carcinogenicity:** not listed by ACGIH, IARC, NTP, or CA

### SECTION 12 ECOLOGICAL INFORMATION

#### Ecotoxicity:

Fish: *Onocorhynchus mykiss* (rainbow trout): LC50: 3.6mg/l-96h  
Algae: no information found

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Care should be exercised when burning in chemical incinerator as this substance is flammable.. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

#### Shipping Information:

DOT (US):

UN number: 1325  
CLASS: 4.1(6.1)  
Packing Group: III  
Shipping name: Flammable solids, toxic, organic, n.o.s. (Lithium dodecyl sulfate)

#### IMDG

UN number: 1325  
CLASS: 4.1(6.1)  
Packing Group: III  
Shipping name: Flammable solids, toxic, organic, n.o.s. (lithium dodecyl sulfate)

#### IATA:

UN number: 1325  
CLASS: 4.1(6.1)  
Packing Group: III  
Shipping name: Flammable solids, toxic, organic, n.o.s. (Lithium dodecyl sulfate)

### SECTION 15 REGULATORY INFORMATION

#### Canada:

WHMIS:  
B4: flammable solid  
D2B, Toxic material Causing Other Toxic Effects  
Moderate skin irritant  
Moderate eye irritant

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz  
Date Prepared: Jan 1/2025  
Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.  
Observe all federal, provincial and state laws concerning health, safety and pollution.