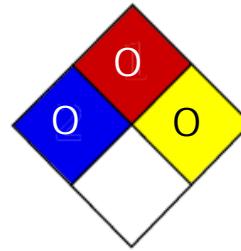




"Chemicals, Reagents & BioAffinity Matrix"



Health	0
Fire	0
Reactivity	0
Personal Protection	

## Material Safety Data Sheet

### L-Lysine acetate

#### 1: Chemical Product and Company Identification

**Product Name:** L-Lysine acetate

**Contact information:**

**Catalog Code:** 41200048-1

**bioWORLD**  
4150 Tuller Rd  
Suite 228, Dublin, OH 43017, USA

**CAS#:** 57282-49-2

For information, call: 614-792-8680  
Fax Number: 614-792-8685  
Order Online: [www.bio-world.com](http://www.bio-world.com)

**RTECS:** OL5644200

E-mail : [save@bio-world.com](mailto:save@bio-world.com)

**TSCA:** TSCA 8(b) inventory: L-Lysine acetate

**In case of a chemical emergency, contact local hospital.**

**CI#:** Not available.

**For non-emergency assistance, call: 1-800-860-9729**

**Chemical Name:** L-Lysine acetate

**Chemical Formula:** C<sub>8</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>

#### 2: Composition and Information on Ingredients

##### Composition:

###### Name

L-Lysine acetate

###### CAS#

57282-49-2

###### % by Weight

-

##### Toxicological Data on Ingredients:

LD<sub>50</sub> (Oral, Rat): 11400 mg/kg

LD<sub>50</sub> (Oral, Mouse): 13400 mg/kg

#### 3: Hazards Identification

**Potential Acute Health Effects:** Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

**CARCINOGENIC EFFECTS:** Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

#### 4: First Aid Measures

**Eye Contact:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

**Skin Contact:** After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used.

**Serious Skin Contact:** Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**Inhalation:** Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Serious Inhalation:** Not available.

**Ingestion:** Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

**Serious Ingestion:** Not available.

#### 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Product of Combustion:** Carbon monoxide, Carbon dioxide.

**Fire Hazards in Presence of Various Substances:** Not available.

**Explosion Hazards in Presence of Various Substances:**

Not available.

**Fire Fighting Media and Instructions:**

**SMALL FIRE:** Dry chemical powder.

**LARGE FIRE:** Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

#### 6: Accidental Release Measures

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading

water on the contaminated surface and allow to evacuate through the sanitary system.

## 7: Handling and Storage

**Precautions:** Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

**Storage:** Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

## 8: Exposure Controls/Personal Protection

**Engineering Controls:** Safety shower and eye bath. Mechanical exhaust required.

**Personal Protection:** Respiratory: Wear dust mask.

Hand: Protective gloves.

Eye: Chemical safety goggles.

**Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Dust respirator. Boots. Gloves.

**Exposure Limits:** Not available.

## 9: Physical and Chemical Properties

**Physical State and Appearance:** Solid. (Crystalline solid.)

**Odor:** Not available.

**Taste:** Not available.

**Molecular Weight:** 206.24 g/mole

**Color:** White.

**pH(1% soln/water):** Not available.

**Boiling Point:** Not available.

**Melting Point:** 281°C (537.8 °F)

**Critical Temperature:** Not available.

**Specific Gravity:** Not available.

**Vapour Pressure:** Not available.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Easily soluble in cold water.

## 10: Stability and Reactivity Data

**Stability:** Stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available.

**Incompatibility with various substances:** Strong oxidizing agents.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

## 11: Toxicological Information

**Routes of Entry:** Skin contact. Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:**

LD<sub>50</sub> (Oral, Rat): 11400 mg/kg

LD<sub>50</sub> (Intraperitoneal, Rat): 3700 mg/kg

LD<sub>50</sub> (Subcutaneous, Rat): 4 g/kg

LD<sub>50</sub> (Intravenous, Rat): 2850 mg/kg

LD<sub>50</sub> (Oral, Mouse): 13400 mg/kg

LD<sub>50</sub> (Intraperitoneal, Mouse): 5100 mg/kg

LD<sub>50</sub> (Subcutaneous, Mouse): 5800 mg/kg

LD<sub>50</sub> (Intravenous, Mouse): 3700 mg/kg

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:** Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available.

## 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD<sub>5</sub> and COD:** Not available.

**Product of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

### 13: Disposal Considerations

**Waste Disposal:** Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

### 14: Transport Information

**DOT Classification:** Not a DOT controlled material.

**Identification:** Not available.

**Special Provisions for Transport:** Not available.

### 15: Other Regulatory Information

**Federal and State Regulations:** TSCA 8(b) inventory: L-Lysine acetate

**Other Regulations:** Not available.

**Other Classifications:**

**WHMIS(Canada):** Not available.

**DSCL(EEC):** Not available.

**HMIS(U.S.A):**

**Health Hazard:** 0

**Fire Hazard:** 0

**Reactivity:** 0

**Personal Protection:**

**National Fire Protection Association (U.S.A):**

**Health:** 0

**Flammability:** 0

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety goggles.

### 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

**Created:** 24/07/2006 1:35:49 PM

**Last Updated:** 19/01/2009 9:34:02 AM

#### **Disclaimer**

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