Section 1 - Product and Company Information

Product Name: L-Lactic Dehydrogenase solution, Type III, From Bovine Heart
Product Number: L2623
Brand: Sigma Chemical

Company: Sigma-Aldrich
Address: 3350 Spouse Street
City, State, Zip, Country: SAINT LOUIS, MO 63103 US
Technical Phone: 800-325-5822
Fax: 630-735-0022
Emergency Phone: 314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name: L-LACTATE DEHYDROGENASE
CAS #: 9001-80-9
SARA 313: No
FC no: 232-617-8

Formula:

Synonyms:

Section 3 - Hazards Identification

Emergency Overview:
Caution: Possible sensitizer.

HMIS Rating:
Health: 2
Flammability: 0
Reactivity: 0

NFPA Rating:
Health: 2
Flammability: 0
Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure:
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure:
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure:
In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure:
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A

Extinguishing Media:
Suitable Use extinguishing media appropriate to surrounding fire conditions.

Firefighting:
Protective Equipment:
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up:
Sweep up, place in a bag and hold for waste disposal. Avoid breathing dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling:
User Exposure:
Avoid contact with eyes, skin, and clothing. Avoid inhalation. Avoid prolonged or repeated exposure.

Storage:
Suitable:
Keep tightly closed. Store at 2-8°C

Section 8 - Exposure Controls / PPE

Engineering Controls:
Safety shower and eye bath.

Personal Protective Equipment:
Respiratory:
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143)

Hand:
Compatible chemical-resistant gloves

Eye:
Chemical safety goggles.

General Hygiene Measures:
Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance:
Physical State:
Solid

Sigma Chemical - L2623
Sigma-Aldrich Corporation
www.sigma-aldrich.com
**Section 10 - Stability and Reactivity**

**Stability**
Stable.

**Materials to Avoid**
Strong oxidizing agents.

**Hazardous Decomposition Products**

**Hazardous Decomposition Products**
Nature of decomposition products not known.

**Hazardous Polymerization**

**Hazardous Polymerization**
Will not occur.

**Section 11 - Toxicological Information**

**Route of Exposure**

**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.

**Sensitization**

**Sensitization**
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

**Signs and Symptoms of Exposure**
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**RTECS Number:** N/A

**Section 12 - Ecological Information**

No data available.

**Section 13 - Disposal Considerations**

**Appropriate Method of Disposal of Substance or Preparation**
Contact a licensed professional waste disposal service to dispose of this material.

**Disposal or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.**

**Section 14 - Transport Information**

**DOT & IATA**

**Proper Shipping Name:** None

**Non-Hazardous for Transport**
This substance is considered to be non-hazardous for transport.

**IATA**

**Non-Hazardous for Air Transport**
Non-hazardous for air transport.

**Section 15 - Regulatory Information**

**EU Additional Classification**

**Safety Statements**
S: 22 24/25

Do not breathe dust. Avoid contact with skin and eyes.

**US Classification and Label Text**

**US Statements**
Caution: Possible sensitizer.

**United States Regulatory Information**

**SARA Listed:** No

**Canada Regulatory Information**

**WHMIS Classification**
This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

**DSL:** No

**NDSL:** No

**Section 16 - Other Information**

**Disclaimer**
For R&D use only. Not for drug, household or other uses.

**Warranty**
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for