



**MATERIAL SAFETY DATA SHEET (MSDS)**

**Product No. MDH ENZYME**

**IDENTIFICATION:** Malate Dehydrogenase Enzyme  
Synonym: L-Malate: NAD oxido-reductase  
CAS #: 9000-97-9  
EC NO: 1.1.1.37  
SOURCE: Porcine Heart (Mitochondrial)

**TOXICITY HAZARDS** Possible biohazard

**HEALTH HAZARD DATA**

**ACUTE EFFECTS**

Possibly harmful by inhalation, ingestion, or skin absorption, May cause irritation, induce allergic sensitization, or cause allergic reactions in sensitized individuals. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**FIRST-AID MEASURES**

If swallowed, wash out mouth with water, provided person is conscious. Drink water. Call physician if symptoms occur.

Skin or eye contact: flush with copious amounts of water for at least 15 minutes. Call physician if symptoms occur. Wash contamination clothing before re-use.

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

**PHYSICAL & CHEMICAL PROPERTIES:** Ammonium sulfate suspension, characteristic odor.

**FIRE, EXPLOSION HAZARD & REACTIVITY DATA**

No unusual reactivity or explosion hazards or incompatibilities.

**HANDLING AND STORAGE PRECAUTIONS**

Chemical safety goggles.

Wash thoroughly after handling

Store at the temperature indicated on the label in sealed container.

**ECOLOGICAL AND DISPOSAL INFORMATION**

No ecological data available, except that substance is readily biodegradable. No special disposal method required, except that in accordance with local authority regulations.

**TRANSPORT INFORMATION** No special requirements. Not regulated.

**REGULATORY INFORMATION**

Labeling: Xn (harmful)

R-42: May cause sensitization by inhalation.

S-23: Do not breathe spray.

**OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Manufacturer shall not be held liable for any damage resulting from handling or from contact with the above product.

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