

Safety Data Sheet


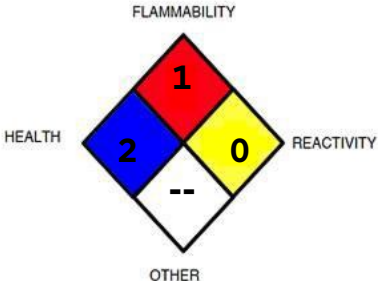
Section 1: Product & Company Identification

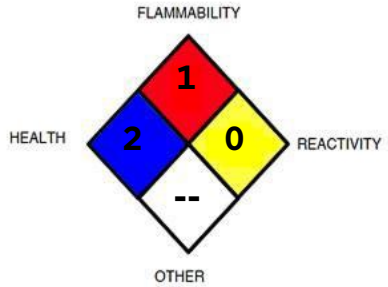
Product Name:	Lactate Oxidase, Recombinant
Product #:	L-1175
Synonyms:	LAo; lactate oxidative decarboxylase; lactic oxygenase; lactate oxygenase; lactic oxidase; L-lactate monooxygenase; lactate monooxygenase
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego CA 92131 Tele# + 858-452-9925
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

Section 2: Composition / Information on Ingredients

Component	CAS#	EC #	% Composition
Lactate oxidase	9028-72-2	1.13.12.4	100

Section 3: Hazards Identification

Symbols	
HMIS Classification	<p style="text-align: center;">FLAMMABILITY</p>  <p style="text-align: center;">OTHER</p>

NFPA Classification	
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Section 4: First Aid Measures

General Overview:	Call a poison center or a doctor if you feel unwell.
Inhalation:	May cause an allergy or asthma symptoms or breathing difficulties if inhaled. Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
Skin:	May cause slight irritation. Wash skin with plenty of water.
Eyes:	Rinse eyes with water as a precaution.
Ingestion:	Call a poison center or a doctor if you feel unwell.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5: Fire Fighting Measures

Flammability of the product:	Non-flammable
Extinguishing Media:	Water spray, Dry powder, Foam
Hazardous thermal (de)composition products:	Toxic fumes may be released.
Special Fire Fighting Procedures:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Flash Point:	N/A

Section 6: Accidental Release Measures

Personal Precautions:	Exercise caution. Spill area may be slippery. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not attempt to take action without suitable protective equipment.
Environmental Precautions:	Avoid release to the environment.
Methods for Clean-up:	Mechanically recover the product. Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling & Storage

Storage:	Store in a well-ventilated place. Keep cool. Store at -20°C
Handling:	Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:



Wear respiratory protection.

Skin and Body:



Wear suitable protective clothing.

Eyes:



Safety glasses.

Ventilation/Engineering Measures:

Ensure good ventilation of the workstation. Avoid release to the environment.

Hygiene:

Handle in accordance with good industrial hygiene and safety practice.

Other:

No data available.

SECTION 9: Physical and Chemical Properties

Appearance & Odor:	Yellowish lyophilized powder
Formula	N/A
Molecular Wt.	N/A
Melting Pt.	No data available
Boiling Pt.	No data available
Density:	No data available
Vapor Pressure:	No data available
Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	Soluble
Flash Point:	No data available
Autoignition Temp:	No data available

SECTION 10: Stability and Reactivity

Stability:	Stable under normal conditions.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Materials to Avoid:	No data available
Conditions to avoid:	No data available

SECTION 11: Toxicological Information

RTECS#:	N/A
ACUTE Toxicity:	N/A
CHRONIC Toxicity:	N/A
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.</p> <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>

SECTION 12: Ecological Information

Ecotoxicity:	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
General Notes:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 13: Disposal Considerations

Residue Waste or Unused product:	Only professional staff trained in such techniques must undertake waste disposal. Observe all appropriate federal, provincial, or state and local regulations.
Contaminated Packaging:	Do not re-use empty containers. Dispose of as unused product.

SECTION 14: Transportation Information

UN ID#:	N/A
ADR / RID (LAND):	Not regulated
DOT regulations:	Not regulated
IMDG/IMO (SEA):	Not regulated
IATA/DGR (AIR):	Not regulated
Special Provisions:	N/A

SECTION 15: Regulatory Information

Health Phrases:	H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled
Risk Phrases:	<p>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.</p> <p>P284 - [In case of inadequate ventilation] wear respiratory protection.</p> <p>P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.</p> <p>P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor.</p> <p>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</p>
Safety Phrases:	N/A



EU Regulations:	N/A
US Regulations:	TSCA: Not listed California Proposition 65: Not listed
U.S. Federal Regulations:	SARA 302/304/311/312 extremely hazardous substances: No products were found SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found. SARA 313 toxic chemicals notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. OSHA: No products were found.
WHMIS (Canada):	N/A

SECTION 16: Other Information

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