

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name: **Lactic Acid, Natural**
 Product Number: **0261100**
 Recommended Use: **Flavorings**


Manufacturer: **Aurochemicals**
 7 Nicoll Street
 Washingtonville, NY 10992 – USA
 845-496-6065
 845-496-6248 Fax

Emergency Telephone No.: **1-800-535-5053**
 (International 1-352-323-3500 collect)

Section 2: HAZARD(s) IDENTIFICATION

OSHA Hazards **Irritant, Corrosive**
 GHS Classification **Skin irritation (Category 2)**
Serious eye damage (Category 1)

GHS Label elements, including precautionary statements

Pictogram 

Signal Word: **DANGER**

Hazard Statement: **H315 Causes skin irritation**
H318 Causes serious eye damage

Precautionary Statement **P280 Wear protective gloves/protective clothing**
P305+ IF IN EYES: Rinse cautiously with water for several minutes
P351+ Remove contact lenses if present and easy to do
P338 Continue rinsing

HMIS Classification **Health Hazard 2**
Flammability 1
Physical Hazards 0

Potential Health Effects **Inhalation May be harmful if inhaled. Causes respiratory tract irritation**
Skin May be harmful if absorbed through skin. Causes skin irritation
Eyes Causes eye irritation
Ingestion May be harmful if swallowed

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	Lactic Acid	Concentration 90-100%
Chemical Name	Lactic Acid	
Common Name:	Lactic Acid	
Synonyms:	DL-Lactic Acid; 2-Hydroxy propanoic acid	
CAS #	50-21-5	
EC#	200-018-0	
Molecular Weight	90.08 g/mol	
Molecular Formula	C ₃ H ₆ O ₃	

Section 4: FIRST AID MEASURES

General Advise:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and seek medical advice.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with plenty of mild soap and warm water. Consult a physician.
Inhalation:	Provide fresh air, Consult a physician.
Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water, seek medical advice, show this container or label to attending physician.
Clothing contamination:	Wash contaminated clothing before re-use

Section 5: FIREFIGHTING MEASURES

Conditions of Flammability	Not flammable or combustible
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special protective equipment for firefighters	Wear self contained breathing apparatus for firefighting if necessary
Other Information	Hazardous decomposition products formed under fire conditions – Carbon oxides

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental-protected measures	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Procedures for cleaning / absorption	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Ventilate area	After sweep up, wash area and ventilate area well

Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Contains no substances with occupational exposure limit values.
Personal Protective Equipment:	These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.
Body Protection:	Complete suit protecting against chemicals should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
Respiratory Protection:	Where risk assessment shows respirators are appropriate the respirator should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. Use respirators and components tested and approved under appropriate government standards such as NIOSH.
Eye Protection:	Wear appropriate face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Hand Protection:	Wear chemically resistant Nitrile rubber gloves and wash and dry hands after handling this product.
Industrial Hygiene:	Avoid contact with skin, eyes, and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. Wash hands after working with product

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Colorless to pale yellow liquid
Odor:	Characteristic
Boiling Point:	122°C
Flashpoint:	>110°C
Melting Point	No data available
Ignition temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure:	No data available
Specific Gravity @ 25°C:	1.200-1.210
Solubility	Soluble in water, glycerol, glycol, oils and alcohol

Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous reactions	No data available
Conditions to avoid	Avoid Moisture
Materials to avoid	Bases, Oxidizing agents, Reducing agents, Strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions-Carbon oxides.

Section 11: TOXICOLOGICAL INFORMATION

LD50, Oral Rat- male	4,936 mg/kg
LD50, Oral Rat- female	3,543 mg/kg
LC50 Inhalation Rat male & female	>7.94 mg/l 4h
LD50 Dermal - Rabbit male & female	>2,000 mg/kg
Further toxicological information	No data available
Skin corrosion / irritation	Rabbit – skin irritation -24h
Serious eye damage / eye irritation	Chicken – severe eye irritation
Respiratory or skin sensitization	Buehler test – guinea pig – does not cause skin sensitisation
Germ cell mutagenicity	Genotoxicity in vitro – Hamster- ovary; cytogenetic analysis
Carcinogenicity	
	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.
	ACGIH No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH.
	NTP No component of this product, present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
	OSHA No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	Mouse – Oral: Maternal effects: other effects. Specific Developmental Abnormalities, Musculoskeletal system
Specific target organ toxicity-Single Exposure (GHS)	No data available
Specific target organ toxicity-Repeated Exposure (GHS)	No data available
Aspiration hazard	No data available
Potential health effects	Inhalation May be harmful if inhaled. Causes respiratory tract irritation Ingestion May be harmful if swallowed Skin May be harmful if absorbed through skin. Causes skin irritation

Eyes Causes eye irritation

Synergistic effects No data available
RTECS OD2800000**Section 12: ECOLOGICAL INFORMATION**

Toxicity
Toxicity to fish Mortality LC50-Oncorhynchus mykiss (rainbow trout) 130 mg/l-96h
Mortality LC50-Danio rerio (zebra fish) -195 mg/l -96
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates Immobilization EC50 – Daphnia magna (water flea) 130 mg/l -48h
Method: OECD Test Guideline 202

Toxicity to algae Growth inhibition EC50- Selenastrum capricornutum (green algae) 3.5 g/l -72h
Method: OECD Test Guideline 201

Toxicity to bacteria EC50- Sludge Treatment - >100 mg/l 3h
Method: OECD Test Guideline 209

Persistence and degradability: Aerobic: Result 67% - Readily biodegradable
Biodegradability
Other adverse effects No data available

Section 13: DISPOSAL CONSIDERATIONSProduct: According to local regulations
Packaging: According to local regulations**Section 14: TRANSPORT INFORMATION**

DOT (US) UN 3265 Class 8 Packing Group III
Proper shipping name Corrosive , Acidic liquid, organic, n.o.s. (Lactic Acid)
Reportable Quantity (RQ) No
Marine Pollutant No
Poison inhalation hazard No

IMDG UN 3265 Class 8 Packing Group III
Proper shipping name Corrosive , Acidic liquid, organic, n.o.s. (Lactic Acid)
Marine Pollutant No

IATA UN 3265 Class 8 Packing Group III
Proper shipping name Corrosive , Acidic liquid, organic, n.o.s. (Lactic Acid)

Section 15: REGULATORY INFORMATION

OSHA Hazards Irritant, Corrosive

SARA 302 No chemicals in this material are subject to the reporting requirements of SARA Title III,

Safety Data Sheet

Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know Components

Lactic Acid CAS # 50-21-5-8 Rev. Date:

New Jersey Right to Know Components

Lactic Acid CAS # 50-21-5-8 Rev. Date:

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

Section 16: OTHER INFORMATION

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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