

Lactic Acid

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
March 26, 2012 / Rules and Regulation

Revision Date: 14-Oct-2024
Supersedes: 26-Oct-2023

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Lactic Acid
Synonyms: No data available
INCI Name: Lactic Acid, Water
CAS Number: 50-21-5, 7732-18-5
Formula: No data available
Product Form: Liquid
Product Use: Cosmetic use

Distributor: MakingCosmetics Inc.
Address: 10800 231st Way NE
Redmond, WA 98053 (USA)
Phone / Fax: 425-292-9502 / 425-292-9601
Web: www.makingcosmetics.com

Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

Classification: Skin Corrosion/Irritation: Category 1A, 1B, 1C
Eye Damage: Category 1

Signal Word:

DANGER

Hazard Pictograms:



Hazard Statements: Causes severe skin burns and eye damage.

Causes serious eye damage.

Precautionary Statements:

Do not breathe vapors, mist.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of soap and water.

Wash contaminated clothing before use.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

If skin irritation occurs: Get medical advice/attention.

IF swallowed: rinse mouth. Do not induce vomiting.

Potential Health Hazards:

Eyes: Causes severe eye damage.

Inhalation: May be an irritant.

Skin: Causes severe burns.

Ingestion: May cause nausea, vomiting, and/or diarrhea.

NFPA Ratings (704):

Health 3 Serious

Flammability 0 Minimal

Reactivity 0 Minimal

Specific Hazard N/A

HMIS Ratings:

Health 3 Serious

Flammability 0 Minimal

Reactivity 0 Minimal

Personal Protection B Wear safety glasses and gloves

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Lactic Acid	50-21-5	88 - 92%	Not Available
Water	7732-18-5	8 - 12%	Not Available

4 FIRST AID MEASURES

Eyes:	Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.
Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration using a pocket mask type resuscitator. Call a physician immediately.
Skin:	Immediately remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
Ingestion:	Do Not Induce Vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	May be combustible at high temperatures. Use appropriate media (sprayed water jet, foam, dry powder, CO2) for surrounding environment for adjacent fire. No unsuitable extinguish media listed.
Special protective equipment & precautions for firefighters:	Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Cool down containers exposed to heat with a water spray. Contain the extinguishing fluids by bundling.
Flash Points:	Not applicable.
Specific hazards arising from the chemical:	During combustion: Toxic fumes may be released such as carbon oxides (CO and CO2). See also Stability and reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Avoid contact with skin and eyes. Do not breathe vapors. Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions:	Avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak.
Methods and material for containment and cleaning up:	In case of important spillage, only qualified personnel equipped with suitable protective equipment may intervene. Contain the spilled material by bundling. Do not discharge into drains or rivers. Dispose of absorbed material in accordance with the regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	Ensure good ventilation of the work station. Do not breathe vapors. Do not drink, eat or smoke in the workplace. Always wash hands after handling the product. Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Use good personal hygiene practice. See section 8 for recommendations on the use of personal protective equipment.
Conditions for safe storage, incl. any incompatibilities:	Store in a sealed container in a cool, dry environment. Protect from heat and sunlight. Keep away from ignition sources. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Lactic Acid	Not established		

TWA: Time Weighted Average over 8 hours of work.
 TLV: Threshold Limit Value over 8 hours of work.
 REL: Recommended Exposure Limit
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
 IDLH: Immediately Dangerous to Life or Health
 WEEL: Workplace Environmental Exposure Levels
 CEIL: Ceiling

Personal Protection:

Eyes:	Wear safety glasses.
Inhalation:	Ensure good ventilation of the work station. In cases of insufficient ventilation, wear an air purifying mask.
Body:	Wear suitable gloves (e.g. of PVC or nitrile rubber) and full protective clothing.
Other:	Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous liquid	Vapor Pressure:	No data available
Odor:	Odorless	Vapor Density:	No data available
Odor Threshold:	Not applicable	Evaporation Rate:	No data available
Color:	No data available	Flammability:	Undetermined
Molecular Weight:	No data available	Upper/lower Explosive Limit:	No data available
pH:	0 - 2	Flash Point:	Not applicable
Boiling Point F(C):	250° F (121.1° C)	Specific Gravity:	1.2000000
Melting/Freezing Point:	No data available	Water Solubility:	Soluble
Relative Density:	1.2000000	Auto-Ignition Temperature:	752.0000000
Partition Coefficient: n-octanol/water:	-0.6200000	Decomposition Temperature:	392.0000000
Viscosity:	No data available	Explosive Properties:	No data available
Oxidizing Properties:	No data available	Metal Corrosion:	No data available

10 STABILITY AND REACTIVITY

Reactivity:	Not applicable.
Chemical Stability:	Stable.
Hazardous Polymerization:	No data available.
Conditions to Avoid:	High temperatures.
Incompatible Materials:	Not applicable.
Hazardous Decomposition Products:	Carbon Oxides.
Possible Hazardous Reactions:	No data available.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available.
Skin:	Causes severe skin burns and eye damage. No known measures of toxicity.
Eyes:	Causes serious eye damage. Can cause severe injury - damage reversible. No known measure of toxicity.
Inhalation:	No data available.
Ingestion:	No data available.
Carcinogenicity:	No carcinogens listed under NTP, IARC, OSHA, or GHS.
Teratogenicity:	No data available.
Germ Cell Mutagenicity:	No data available.
Embryotoxicity:	No data available.
Specific Target Organ Toxicity:	No data available.
Reproductive Toxicity:	No data available.
Sensitization:	No data available.
Chronic Toxicity:	No.

12 ECOLOGICAL INFORMATION

Ecotoxicity:	No data available.
Aquatic Vertebrate:	(Fish) LC50: 130 - 320 mg/l.
Aquatic Invertebrate:	(Crustacea) EC50: 130-750 mg/l.
Terrestrial:	(Algae) ErC50: 3500 mg/l. (Chronic Algae) NOEC: 1900 mg/l.
Persistence and Degradability:	Readily biodegradable.
Bioaccumulative Potential:	Not Bioaccumulative.
Mobility in Soil:	No data available.
PBT and vPvB Assessment:	No data available.
Other Adverse Effects:	No data available.

13 DISPOSAL CONSIDERATIONS

Waste Residues:	Users should review their operations in terms of the applicable federal/national or local regulations and
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consult with appropriate regulatory agencies, if necessary, before disposing of waste product. Regulations may vary by location.

Product Containers: Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container. Regulations may vary by location.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Un Number: UN3265 Class: 8 Packing group: III Proper shipping name: UN3265, Corrosive liquid, Acidic, Organic, n.o.s. (Lactic Acid), 8, PG III
TDG (Transportation of Dangerous Goods, Canada):	Un Number: UN3265 Class: 8 Packing group: III Proper shipping name: UN3265, Corrosive liquid, Acidic, Organic, n.o.s. (Lactic Acid), 8, PG III
IMDG (International Maritime Dangerous Goods):	Un Number: UN3265 Class: 8 Packing group: III Proper shipping name: UN3265, Corrosive liquid, Acidic, Organic, n.o.s. (Lactic Acid), 8, PG III
IATA (International Air Transport Association):	Un Number: UN3265 Class: 8 Packing group: III Proper shipping name: UN3265, Corrosive liquid, Acidic, Organic, n.o.s. (Lactic Acid), 8, PG III
ICAO (International Civil Aviation Organization):	Un Number: UN3265 Class: 8 Packing group: III Proper shipping name: UN3265, Corrosive liquid, Acidic, Organic, n.o.s. (Lactic Acid), 8, PG III

15 REGULATORY INFORMATION

TSCA Inventory Status:	Cosmetic/personal care applications not subject to TSCA.
OSHA Regulated Hazard:	No.
E C Classification:	Non-applicable.
SARA 312:	No regulated chemicals.
SARA 313:	No regulated chemicals.
EPA Registration Number:	Non-applicable.
California Prop. 65:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
PA Right to Know:	None known.
NJ Right to Know:	None known.
Canada (DSL):	Not applicable.
EU (EINECS):	No data available.
China (IECSC):	No data available.
Australia (AICS):	No data available.
Japan (ENCS):	No data available.
New Zealand (NZIoC):	No data available.

16 OTHER INFORMATION

Revision Date: 14-Oct-2024

Compliance:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Disclaimer:	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.