

Lactic Acid

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

Revision Date: 08/21/2020
Supersedes: 02/06/2017


1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Lactic acid	Distributor: MakingCosmetics.com Inc.
Synonym: Not available	Address: 10800 231 st Way NE
INCI Name: Lactic acid, water	Redmond, WA 98053 (USA)
CAS Number: 50-21-5, 79-33-4, 7732-18-5	Phone / Fax: 425-292-9502 / 425-292-9601
Formula: C ₃ H ₆ O ₃	Web: www.makingcosmetics.com
Product Form: Liquid	
Product Use: Cosmetic use	Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Skin corrosion, Category 2
Eye damage, Category 1

GHS Signal Word: DANGER

GHS Hazard Pictograms: 

GHS Hazard Statements: H315: Causes skin irritation.
H318: Causes serious eye damage.

GHS Precautionary Statements: P264: Wash skin thoroughly after handling.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 + P310: 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.

Potential Health Hazards: Eyes: Causes serious eye damage.
Inhalation: If inhaled may be irritant to the pulmonary system.
Skin: Causes skin irritation
Ingestion: If swallowed may be irritant to the gastrointestinal system

NFPA Ratings (704):

Health	3	Serious
Flammability	1	Slight
Reactivity	0	Minimal
Personal Protection	B	

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Lactic acid	50-21-5, 79-33-4	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 medical attention if necessary.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: May be combustible at high temperature. Use appropriate media (foam, carbon dioxide, dry chemical) for adjacent fire. Do not use water.

Special protective equipment & precautions for firefighters:

Flash Points:

Specific hazards arising from the chemical:

Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

No data available

May emit toxic fumes under fire conditions. 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. Notify environmental authorities in case of large leaks.

Methods and material for containment and cleaning up:

Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7 HANDLING & STORAGE

Precautions for safe handling:

See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use. Ensure good ventilation of the work station. Do not breathe vapors. Do not eat, drink, 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.

Conditions for safe storage, incl. any incompatibilities:

Store in cool, dry well-ventilated area. Keep away from heat, sunlight, ignition sources and incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component

Exposure Limits

Basis

Entity

Lactic acid

Not available

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: Use suitable eye protection glasses or safety goggles.

Inhalation: Not needed under normal conditions of use.

Body: Use protective gloves, slip proof shoes may be worn where spills may occur.

Other: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Viscous liquid

Odor:

Odorless

Odor Threshold:

No data available

Color:

Clear

Molecular Weight:

No data available

pH:

0-2

Boiling Point:

230.0°F (110.0°)

Melting Point:

127°F (52.8°C)

Relative Density:

1.0400000

Partition Coefficient: n-octanol/water:

-0.7200000

Viscosity:

No data available

Oxidizing Properties:

No data available

Vapor Pressure:

No data available

Vapor Density:

No data available

Evaporation Rate:

No data available

Flammability:

Not determined

Upper/lower Explosive Limit:

No data available

Flash Point:

No data available

Specific Gravity:

1.0400000

Solubility in Water:

Soluble

Auto-Ignition Temperature:

752.0000000

Decomposition Temperature:

392.0000000

Explosive Properties:

No data available

Freezing Point:

No data available

10 STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable.
Hazardous Polymerization:	No data available
Conditions to Avoid:	High temperatures.
Incompatible Materials:	No data available
Hazardous Decomposition Products:	Carbon oxides.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available
Skin:	Causes skin irritation. (OECD 404)
Eyes:	Causes serious eye damage.
Respiratory:	No data available
Ingestion:	No data available
Carcinogenicity:	Not listed as a carcinogen by 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
Respiratory/Skin Sensitization:	No data available
Corrosivity:	No data available
Sensitization:	No data available
Irritation:	No data available
Repeated Dose Toxicity:	Not toxic.

12 ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Aquatic Vertebrate:	No data available
Aquatic Invertebrate:	No data available
Terrestrial:	No data available
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 consult with appropriate regulatory agencies if necessary before disposing of waste product container.
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.

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:	In compliance with TSCA Inventory requirements for commercial purposes.
WHMIS (Canada):	Non-applicable
EU EINECS/ELINCS/NLP:	No data available
China IECSC:	No data available
China IECIC (06.30.2014):	No data available
Australia AICS:	No data available
OSHA Regulated Hazard:	No
E C Classification:	Non-applicable
SARA 312 Regulated Chemical(s):	No
SARA 313 Regulated Chemical(s):	No
EPA Registration Number:	Non-applicable
California Prop. 65:	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.
PA RTK Chemical(s):	None known
NJ RTK Chemical(s):	None known
Additional State Regulations:	None known

16 OTHER INFORMATION

Revision Date:	08/21/2020
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.