

## Lactic Acid

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


Revision Date: 06-24-2016  
Supersedes: None

### 1 PRODUCT & COMPANY IDENTIFICATION

<b>Product Name:</b>	Lactic acid	<b>Distributor:</b>	MakingCosmetics.com Inc.
<b>Synonym:</b>		<b>Address:</b>	10800 231 <sup>st</sup> Way NE Redmond, WA 98053 (USA)
<b>INCI Name:</b>	Lactic acid	<b>Phone / Fax:</b>	425-292-9502 / 425-292-9601
<b>CAS Number:</b>	50-21-5, 79-33-4	<b>Web:</b>	www.makingcosmetics.com
<b>Formula:</b>	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>		
<b>Product Form:</b>	Liquid		
<b>Product Use:</b>	Cosmetic use	<b>Emergency Telephone Number:</b>	1-800-424-9300 (Chemtrec)

### 2 HAZARDS IDENTIFICATION

**GHS Signal Word:** DANGER

**GHS Hazard Pictograms:** 

**GHS Hazard Statements:**  
H315: Causes skin irritation  
H318: Causes serious eye damage  
H319: May cause respiratory irritation

**GHS Precautionary Statements:**  
P264: Wash skin thoroughly after handling  
P280: Wear protective gloves, eye/face protection  
P312: If swallowed call poison center or doctor  
P305: If in eyes rinse cautiously with water for several minutes. Remove contact lenses.

**Potential Health Hazards:**  
Eyes: Causes serious eye irritation.  
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	Warning
Flammability	1	Slight
Reactivity	0	Minimal
Specific Hazard	n/a	

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Lactic acid	50-21-5, 79-33-4	88-92%	90.08 g/mole
Water	7732-18-5	8-12%	18.02 g/mole

### 4 FIRST AID MEASURES

**Eyes:** In case of eye contact, rinse with plenty of water and seek medical attention if necessary

**Inhalation:** Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

**Skin:** Flush with plenty of water and wash using soap.

**Ingestion:** Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Get medical attention if necessary.

## 5 FIRE-FIGHTING MEASURES

<b>Suitable (and unsuitable) extinguishing media:</b>	May be combustible at high temperature. Use appropriate media (foam, carbon dioxide, dry chemical) for adjacent fire. Do not use water.
<b>Special protective equipment &amp; precautions for firefighters:</b>	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
<b>Flash Points:</b>	Not available
<b>Specific hazards arising from the chemical:</b>	May emit toxic fumes under fire conditions. See also Stability and Reactivity section.

## 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment &amp; emergency procedures:</b>	See section 8 for recommendations on the use of personal protective equipment.
<b>Environmental precautions:</b>	Not available
<b>Methods and material for containment and cleaning up:</b>	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

<b>Precautions for safe handling:</b>	See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use.
<b>Conditions for safe storage, incl. any incompatibilities:</b>	Store in cool, dry well ventilated area. Keep away from heat and 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 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:

<b>Eyes:</b>	Use suitable eye protection glasses or safety goggles
<b>Inhalation:</b>	Not needed under normal conditions of use.
<b>Body:</b>	Use protective gloves, slip proof shoes may be worn where spills may occur
<b>Other:</b>	Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance, Physical State:</b>	Syrupy Liquid	<b>Vapor Pressure:</b>	No data available
<b>Odor:</b>	None	<b>Vapor Density:</b>	No data available
<b>Taste:</b>	No data available	<b>Evaporation Rate:</b>	No data available
<b>Color:</b>	Clear	<b>Flammability:</b>	No data available
<b>Molecular Weight:</b>	90.08 g/mole	<b>Upper/lower Explosive Limit:</b>	No data available
<b>pH Value:</b>	<2	<b>Solubility:</b>	Soluble in water
<b>Boiling Point:</b>	122 °C (252 °F)	<b>Specific Gravity:</b>	1.21

<b>Melting Point:</b>	No data available	<b>Flash Point:</b>	No data available
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## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	Product is stable
<b>Chemical Stability:</b>	Product is stable
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Avoid all possible sources of ignition
<b>Corrosivity:</b>	This material has little tendency to cause corrosion to metals. Non-corrosive in presence of glass.
<b>Hazardous Decomposition Products:</b>	Only at high temperatures may the product generate irritant vapors.

## 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	LD50 (rat): > 3730 mg/kg Dermal LD 50 (rat): > 7940 mg/kg Rabbit eye irritation: 750 mg, severe irritation Rabbit skin irritation: 500 mg/24 hrs severe irritation
<b>Acute Potential Health Effects:</b>	Skin: Causes severe irritation. May cause skin burns. May be harmful if absorbed through skin. Eyes: Causes severe eye irritation. May cause eye burns. Inhalation: May be harmful if inhaled. Causes severe irritation of the respiratory tract and mucous membranes. May cause chemical burns to the respiratory tract. May affect sense organs, and metabolism. Ingestion: May be harmful if swallowed. Causes irritation of the digestive tract. May cause digestive (gastrointestinal) tract burns. May affect behavior (somnolence or general depressed activity), urinary system, and blood. Chronic Potential Health Effects: No information found
<b>Carcinogenicity:</b>	Not data available
<b>Teratogenicity:</b>	Not data available
<b>Germ Cell Mutagenicity:</b>	Not data available
<b>Embryotoxicity:</b>	Not data available
<b>Reproductive Toxicity:</b>	Not data available
<b>Repeated dose toxicity:</b>	Not data available

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Not data available
<b>Persistence and Degradability:</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise
<b>Bioaccumulative Potential:</b>	No data available
<b>Mobility in Soil:</b>	No data available
<b>PBT and vPvB Assessment:</b>	No data available

## 13 DISPOSAL CONSIDERATIONS

<b>Waste Residues:</b>	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.
<b>Product Containers:</b>	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:** Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Lactic Acid)  
 Hazard Class: 3265 Class: 8 Packing Group: III  
 Description: Corrosive liquid  
 N-No: 3265 Class: 8 Packing Group: III

**TDG:** Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Lactic Acid)  
 Hazard Class: 8  
 Description:  
 UN-No: 3265 Class: 8 Packing Group: III

**IATA:** Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Lactic Acid)  
 Hazard Class: 8  
 Description:  
 UN-No: 3265 Class: 8 Packing Group: III

**IMDG:** Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (LACTIC ACID)  
 Hazard Class: 8  
 EmS No.:  
 Description

## 15 REGULATORY INFORMATION

**TSCA Inventory Status:** Not subject to TSCA

**Other Regulations:** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).  
 EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances

**WHMIS (Canada):** CLASS E: Corrosive

## 16 OTHER INFORMATION

**Revision Date:** 06/24/2016

**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.