

## Glycolic Acid

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


Revision Date: 08/11/2020  
Supersedes: 05/07/2020

### 1 PRODUCT & COMPANY IDENTIFICATION

<b>Product Name:</b> Glycolic acid	<b>Distributor:</b> MakingCosmetics.com Inc.
<b>Synonym:</b> Hydroacetic acid	<b>Address:</b> 10800 231 <sup>st</sup> Way NE
<b>INCI Name:</b> Glycolic acid, water	Redmond, WA 98053 (USA)
<b>CAS Number:</b> 79-14-1, 7732-18-5	<b>Phone / Fax:</b> 425-292-9502 / 425-292-9601
<b>Formula:</b> C <sub>2</sub> H <sub>4</sub> O <sub>3</sub>	<b>Web:</b> <a href="http://www.makingcosmetics.com">www.makingcosmetics.com</a>
<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 Classification:** Harmful, corrosive  
**GHS Signal Word:** DANGER

**GHS Hazard Pictograms:** 

**GHS Hazard Statements:**  
 H302: Harmful if swallowed.  
 H314: Causes severe skin burns and eye damage.  
 H332: Harmful if inhaled.

**GHS Precautionary Statements:** P280: Wear protective gloves/protective clothing/eye protection/face protection.

**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	Serious
Flammability	0	Minimal
Reactivity	0	Minimal
Specific Hazard	N/A	

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Glycolic acid	79-14-1	69-71%	Not available
Water	7732-18-5	29-31%	Not available

### 4 FIRST AID MEASURES

**Eyes:** In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

**Inhalation:** If inhaled, immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

**Skin:** In case of skin contact, immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Seek medical attention. Wash contaminated clothing before reuse.

**Ingestion:** Immediately give two glasses of water. Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Seek medical attention.

### 5 FIRE-FIGHTING MEASURES

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

**Special protective equipment & precautions for firefighters:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**Flash Points:** Not available

**Specific hazards arising from the chemical:** Contact with active metals may produce flammable hydrogen gas. See also Stability and Reactivity section.

## 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment & emergency procedures:** 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:** Neutralize spills with lime or soda ash. Flush spill area with plenty of water. If this material is spilled and not recovered, or is recovered as a waste for treatment or disposal, the CERCLA Reportable Quantity is 100lbs. 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. Do not get in eyes, on skin, or on clothing. Avoid breathing mist. Wash thoroughly after handling. Keep container closed when not in use.

**Conditions for safe storage, incl. any incompatibilities:** Store in cool, dry well-ventilated area. Protect bulk storage area from sparks and flame. Keep packages tightly closed. Store above 10°C (50°F) melting point. 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>
Glycolic Acid	10 mg/m <sup>3</sup> (8h & 12h)	TWA	AEL (DuPont)

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  
 AEL: Acceptable 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:** Chemical splash goggles should be worn.

**Inhalation:** Good general ventilation should be provided to keep mist concentrations below the recommended exposure limit. Use NIOSH-permissible respiratory protection if there is a reasonable possibility for exposure.

**Body:** Rubber gloves should be worn. Wear a butyl rubber acid suit if there is a reasonable possibility for exposure.

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

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Transparent liquid	<b>Vapor Pressure:</b>	No data available
<b>Odor:</b>	Odorless	<b>Vapor Density:</b>	No data available
<b>Odor Threshold:</b>	No data available	<b>Evaporation Rate:</b>	No data available
<b>Color (Gardner):</b>	1.0 MAX	<b>Flammability:</b>	No data available
<b>Molecular Weight:</b>	No data available	<b>Upper/lower Explosive Limit:</b>	No data available
<b>pH @ 25°C:</b>	0.5-2.0	<b>Solubility:</b>	Soluble in water, methanol, alcohol, acetone, acetic acid
<b>Boiling Point:</b>	110-120°C	<b>Specific Gravity:</b>	1.27
<b>Melting Point:</b>	10°C	<b>Flash Point:</b>	No data available
<b>Relative Density:</b>	No data available	<b>Auto-Ignition Temperature:</b>	No data available
<b>Partition Coefficient: n-octanol/water:</b>	No data available	<b>Decomposition Temperature:</b>	No data available
<b>Viscosity:</b>	No data available	<b>Explosive Properties:</b>	No data available
<b>Oxidizing Properties:</b>	No data available	<b>Freezing Point:</b>	No data available
<b>Acid, Total:</b>	70.0% MIN	<b>Water, %:</b>	30.0% MAX
<b>Formic Acid:</b>	100.0 mg/kg MAX	<b>Sodium Chloride:</b>	0.1-0.5%

## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Product is stable.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions to Avoid:</b>	No data available
<b>Incompatible Materials:</b>	Reacts with active metals (like sodium), oxidizing agents (such as strong nitric acid), cyanide salts, or sulfide salts to produce hydrogen, oxides of nitrogen, hydrogen cyanide, or hydrogen sulfide gases, respectively.
<b>Hazardous Decomposition Products:</b>	Decomposition will not occur.

## 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	No data available
<b>Skin:</b>	No data available
<b>Eyes:</b>	No data available
<b>Respiratory:</b>	LC50: 3.6ml/L (4h) LC50: 5.2 mg/L (4h)
<b>Ingestion:</b>	LD50: 1938 mg/kg
<b>Carcinogenicity:</b>	No data available
<b>Teratogenicity:</b>	No data available
<b>Germ Cell Mutagenicity:</b>	No data available
<b>Embryotoxicity:</b>	No data available
<b>Specific Target Organ Toxicity:</b>	No data available
<b>Reproductive Toxicity:</b>	No data available
<b>Respiratory/Skin Sensitization:</b>	No data available
<b>Corrosivity:</b>	No data available
<b>Sensitization:</b>	No data available
<b>Irritation:</b>	No data available
<b>Repeated Dose Toxicity:</b>	No data available

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Runoff of product will pollute waterways.
<b>Aquatic Vertebrate:</b>	No data available
<b>Aquatic Invertebrate:</b>	No data available
<b>Terrestrial:</b>	No data available
<b>Persistence and Degradability:</b>	Readily biodegradable. After 7d, 89.6% is biodegraded (closed bottle test).
<b>Bioaccumulative Potential:</b>	No data available
<b>Mobility in Soil:</b>	No data available
<b>PBT and vPvB Assessment:</b>	No data available
<b>Other Adverse Effects:</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. If approved, may be neutralized with lime or soda ash and flushed to wastewater treatment system. This material may be a RCRA hazardous waste due to its corrosive characteristic (pH).
<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

<b>DOT (Dept. of Transportation, USA):</b>	UN Number: 3265 PG:II DG Class: 8 Proper Shipping Label: Corrosive Liquid, Acidic, Organic, n.o.s.
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<b>TDG (Transportation of Dangerous Goods, Canada):</b>	UN Number: 3265 PG:II DG Class: 8 Proper Shipping Label: Corrosive Liquid, Acidic, Organic, n.o.s.
<b>IMDG (International Maritime Dangerous Goods):</b>	UN Number: 3265 PG:II DG Class: 8 Proper Shipping Label: Corrosive Liquid, Acidic, Organic, n.o.s.
<b>IATA (International Air Transport Association):</b>	UN Number: 3265 PG:II DG Class: 8 Proper Shipping Label: Corrosive Liquid, Acidic, Organic, n.o.s.

## 15 REGULATORY INFORMATION

<b>TSCA Inventory Status:</b>	Reported/Included
<b>DSCL (EEC):</b>	Class E Corrosive Material
<b>WHMIS (Canada):</b>	Classification: E
<b>EU EINECS/ELINCS/NLP:</b>	No data available
<b>China IECSC:</b>	No data available
<b>China IECIC (06.30.2014):</b>	No data available
<b>Australia AICS:</b>	No data available
<b>SARA 311/312 Hazard Categories:</b>	Acute: YES Chronic: NO Fire: NO Reactivity: NO Pressure: NO
<b>SARA Extremely Hazardous Substance:</b>	Not listed
<b>CERCLA Hazardous Material:</b>	Yes (See Section 6)
<b>SARA Toxic Chemical:</b>	No

## 16 OTHER INFORMATION

<b>Revision Date:</b>	08/11/2020
<b>Compliance:</b>	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
<b>Disclaimer:</b>	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.