

Revision Date: 06-Dec-2024

Supersedes: 10-Sep-2024

Glycolic Acid

Address:

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

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Glycolic Acid Synonyms: No data available INCI Name: Glycolic Acid, Water CAS Number: 79-14-1, 7732-18-5

Formula: $C_2H_4O_3$ Product Form: Liquid

Product Use: Cosmetic use

Distributor: MakingCosmetics Inc.

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 - Category 1B

Acute toxicity, inhalation - Category 4

Signal Word: DANGER!

Hazard Pictograms:

Hazard Statements: H314: Causes severe skin burns and eye damage.

H332: Harmful if swallowed.

Precautionary Statements: (Prevention) P260: Do not breathe dust or mists.

P264: Wash hands and other exposed skin areas thoroughly after handling.

P271: Use only outdoors or in a well-ventilation area.

P280: Wear protective gloves, protective clothing, and eye protection.

(Response) P301+ P330 + P331 + P310: IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting. Immediately call a POISON CENTER or doctor.

P303 + P361 + P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing.

Rinse skin with water or shower.

P304 + P340 + P310: IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Immediately call a POISON CENTER or doctor.

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.

P321: Specific treatment: Contact a POISON CENTER or doctor. Refer to Section 4.

P363: Wash contaminated clothing before reuse.

(Storage) P405: Store locked up.

(Disposal) P501: Dispose of contents and containers in accordance with national and

local regulations.

Potential Health Hazards: Eyes: Causes serious eye damage. Risk of blindness.

Inhalation: May cause irritation of the nose, throat, and respiratory system.

Skin: Causes severe skin irritation and burns.

Ingestion: Harmful if swallowed.

NFPA Ratings (704): Health 3 Seri

Health3SeriousFlammability0MinimalReactivity0Minimal

Specific Hazard N/A

3 COMPOSITION/INFORMATION ON INGREDIENTS

ComponentCAS No.Weight %Molecular WeightGlycolic Acid79-14-168 - 72%Not AvailableWater7732-18-528 - 32%Not Available



FIRST AID MEASURES

Immediately flush eyes with large amounts of water or saline solution for at least 15 minutes, occasionally lifting Eyes:

the upper and lower lids. Remove contact lenses, if present and easy to do, after first 2 minutes and continue

rinsing. Seek immediate medical attention, preferably from an ophthalmologist. Treat symptomatically.

If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by Inhalation:

trained personnel. Do not use mouth-to mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If unconscious, maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband. Seek

immediate medical attention. Treat symptomatically.

Flush skin with large amounts of water while removing contaminated clothing and continue rinsing for at least 15 Skin:

minutes. Wash contaminated clothing thoroughly before reuse. Discard contaminated shoes. Seek immediate

medical attention for chemical burns. Treat symptomatically.

Do Not Induce Vomiting. Never give anything by mouth to an unconscious or convulsing person. Rinse mouth with Ingestion:

water if the victim is conscious. Remove dentures if present. If vomiting occurs, the head should be kept lower than the waist so that vomit does not enter the lungs. Do not leave the victim unattended. If the victim is unconscious, place in the recovery position and get immediate medical attention. Immediately contact a poison control center or doctor. Seek medical attention if the victim feels unwell or if a large quantity of material has

been ingested. Treat symptomatically.

Acute/Delayed Symptoms:

Eyes: Causes burns to the eyes and serious eye damage. Symptoms may include inflammation, swelling, pain, tearing, blurred vision, and burns. May cause permanent eye damage, visual impairment, and possible blindness. Vapor or mist can cause eye irritation. Skin: Causes severe skin irritation and burns. Symptoms may include localized redness, itching, blistering, and pain. Inhalation: Harmful if inhaled. May cause irritation of the nose, throat, and respiratory system. Symptoms may include cough, sore throat, pain, headache, shortness of breath and lung inflammation. Material is extremely destructive to the mucous membranes and upper respiratory tract. Ingestion: Harmful if swallowed. Causes burns to the lips, mouth, throat, and gastrointestinal tract. Causes headache, nausea vomiting, headache, abdominal pain, diarrhea, tiredness, incoordination, collapse, and unconsciousness. May cause perforation of the esophagus and stomach. May cause server and permanent damage to the digestive tract.

FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: Special protective equipment & precautions for firefighters:

and adjacent fire. No limitations of extinguishing agents are given for this material. Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. Water contaminated by this material must be contained from being discharged to any waterway, sewer or drain to prevent environmental contamination.

Product is not a fire/explosion hazard. Use appropriate media for surrounding environment

Flash Points: >200°F (93.3°C)

Specific hazards arising from the

chemical:

Closed containers may rupture due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical

attention. See also Stability and reactivity section.

ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures: Evacuate non-essential personnel. Water appropriate protective clothing and equipment designated in Section 8. Ventilate the area. Remove all sources of ignition. No smoking. Clean up spills immediately. Spill created a slip hazard. 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: Cover drains and contain spill. DO NOT FLUSH LARGE SPILLS DOWN THE DRAIN. Cover spill with a large quantity of inert absorbent. Do use combustible material such as sawdust. Collect material and place it in an approved container for proper disposal. Observe possible material restrictions (Sections 7 and 10). Clean contaminated area with soap and



water. Dispose of absorbed material in accordance with the regulations.

HANDLING & STORAGE

Precautions for safe handling:

Do not get in eyes or on skin or clothing. No Smoking. Do not breathe vapor or mist. If normal use of material presents a respiratory hazard, use only adequate ventilation, or wear an appropriate respirator. Wash contaminated clothing and shoes thoroughly after use. 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 dry, well-ventilated area away. Transfer only approved containers having correct labeling. Keep container tightly closed when not in use. Protect containers from physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers of this material are hazardous when empty as they contain product residues. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Keep out of reach of children. Store away from incompatible materials (see section 10 for incompatibilities).

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits Component **Basis Entity** Glycolic Acid

TWA: Time Weighted Average over 8 hours of work. STEL: Short Term Exposure Limit during x minutes. TLV: Threshold Limit Value over 8 hours of work. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels **REL:** Recommended Exposure Limit PEL: Permissible Exposure Limit CEIL: Ceiling

Personal Protection:

Eyes: Wear safety glasses with unperforated side shields during use.

Inhalation: No personal respiratory protective equipment normally required. Use a NIOSH/MSHA approved respirator if there is

a risk of exposure to vapor/fume at levels exceeding the exposure limits.

Wear gloves recommended by glove supplier for protection against materials in Section 3. Breakthrough time of Body:

selected gloves must be greater than the intended use period. Wear protective clothing and protective boots. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the

representative supplier.

Use good personal hygiene practices. Technical measures and appropriate working operations should be given Other:

> priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly, select, maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection. Provide eyewash

stations, quick-drench showers and washing facilities accessible to areas of use and handling.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, pale-yellow liquid Vapor Pressure: No data available Mild, similar to burnt sugar Vapor Density: No data available Odor: Odor Threshold: No data available **Evaporation Rate:** No data available

No data available Flammability: Not considered a fire hazard Color:

Molecular Weight: 70.05 g/mol Upper/lower Explosive Limit: No data available 0.4 - 0.7 Flash Point: >200°F (93.3°C) pH: **Initial Boiling Point:** 212°F (100°C) Specific Gravity: No data available

Melting/Freezing Point: 50°F (10°C), precipitates Water Solubility @ 20°C: Relative Density: No data available Auto-Ignition Temperature: No data available Partition Coefficient: nlog Pow = -0.07**Decomposition Temperature:** No data available

octanol/water: Dynamic Viscosity at 16°C: **Explosive Properties:** Not an explosion hazard 11.3 cps

Oxidizing Properties: Not applicable Density: 1.27 - 1.30

STABILITY AND REACTIVITY

Miscible



Reactivity: No special reactivity has been reported during normal conditions of handling and use.

Chemical Stability: This material is stable under recommend storage and handing conditions.

Hazardous Polymerization: No data available.

Conditions to Avoid: Avoid temperature extremes and contact with incompatible materials.

Incompatible Materials: Strong oxidizing agents, metals.

Hazardous Decomposition Products: Thermal decomposition products may include oxides of carbon.

Possible Hazardous Reactions: Risk of violent reaction and explosive with metals. Contact may generate flammable

hydrogen gas. Hazardous polymerization will not occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available.

Skin:Causes severe skin irritation and burns.Eyes:Causes serious eye damage. Risk of blindness.

Inhalation: (Rat, Male) LC50: 3.6 mg/l, 4 hours. Ingestion: (Rat) LD50: 1.950 mg/kg.

Carcinogenicity: This product contains no substances present at levels greater than or equal to the 0.1% threshold

(de minimis) that are identified as a probable, possible, potential, or confirmed carcinogens by

ACGIH, IARC, NTP, or OSHA.

Teratogenicity: No data available.

Endocrine Disrupting This mixture does not contain components considered to have endocrine disrupting properties

Properties: according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Germ Cell Mutagenicity: No data available. Embryotoxicity: No data available. Specific Target Organ Toxicity: No data available.

Reproductive Toxicity: No data available that indicates this product causes adverse developmental or fertility effects.

12 ECOLOGICAL INFORMATION

Ecotoxicity: Large spills or discharges of glycolic acid may decrease the pH of aquatic systems to a value 2,

which may be fatal to aquatic life and soil microorganisms.

Aquatic Vertebrate: (Lepomis macrochirus (Bluegill)) Acute and prolonged toxicity to fish: LC50: 24 - 48 hours: 93

mg/l. (Pimephales promelas (Fathead minnow)) LC50: 96 hours: 164 mg/l.

Aquatic Invertebrate: No data available.

Aquatic Plants: (Pseudokirchneriella subcapitata (Green algae)) EbC50: 72 hours: 22.5 mg/l.

Persistence and Degradability: This product is readily biodegradable. Bioaccumulative Potential: The material will not bioaccumulate.

Mobility in Soil: No data available.

PBT and vPvB Assessment: No data available.

Other Adverse Effects: Do not allow material to enter surface waters, wastewater, or soil. An environmental hazard

cannot be excluded in the event of unprofessional handling or disposal.

13 DISPOSAL CONSIDERATIONS

Waste Residues: The generation of waste should be avoided or minimized whenever possible. This material and its container

must be disposed of in a safe way via licensed pharmaceutical waste contractor and in accordance with FDA and DEA regulations. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. 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.

Product Containers: Empty containers or liners may retain some product 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.

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



IATA (International Air Transport Association):

ICAO (International Civil Aviation Organization):

SDS (Safety Data Sheet)

DOT (Dept. of Transportation, USA): UN Number: UN3265

Packing Group: III Hazard Class: 8

Proper Shipping Label: Corrosive Liquid, Acidic, Organic, n.o.s.

NEAREG: Guide #153

Packaging authorization Non-Bulk: 49 CFR 173.202; Bulk: 173.242

Packaging exceptions: 49 CFR 173.154

IMDG (International Maritime Dangerous Goods): UN Number: UN3265

Packing Group: III Hazard Class: 8

Proper Shipping Label: Corrosive Liquid, Acidic, Organic, n.o.s.

Proper Shipping Label: Corrosive Liquid, Acidic, Organic, n.o.s.

Marine Pollutant: No EMS Number: F-A, S-B UN Number: UN3265 Packing Group: III

Hazard Class: 8

Quanty Limitations: 49 CFR 175.27 and 175.75 - Cargo Aircraft Only: 60 I;

Passenger Aircraft: 5 I UN Number: UN3265 Packing Group: III Hazard Class: 8

Proper Shipping Label: Corrosive Liquid, Acidic, Organic, n.o.s.

Quanty Limitations: 49 CFR 175.27 and 175.75 - Cargo Aircraft Only: 60 I;

Passenger Aircraft: 5 I UN Number: UN3265 Packing Group: III Hazard Class: 8

Proper Shipping Label: Corrosive Liquid, Acidic, Organic, n.o.s.

15 REGULATORY INFORMATION

ADR/RID (Road and Rail Transportation):

TSCA Inventory Status: All substances in this product are either listed or are exempt from listing (e.g., naturally-occurring

materials) on the TSCA Inventory. This product is intended for use in applications regulated by the Food and Drug Administration in the United States. This product is not subject to TSCA 12(b)

Export Notification.

OSHA: This material is classified as hazardous in accordance with OSHA 29 CFR 1910-1200.

SARA Section 311/312: Causes severe skin burns and eye damage. Harmful if inhaled.

SARA Section 313: None of the chemicals in this product exceed the threshold (de minimis) reporting levels

established by Section 313 of the Emergency Planning and Community Right- to-Know Act of 1986.

SARA 302/304: None of the components of this product exceed the threshold (de minimis) reporting levels

established by these sections of Title III of SARA.

SARA 302/304: None of the components of this product exceed the threshold (de minimis) reporting levels

established by these sections of Title of SARA.

CERCLA: No components of this product exceed the threshold (de minimis) reporting levels for hazardous

waste established by CERCLA.

Clean Air Act (CAA) This product does not contain any Hazardous Air Pollutants (HAPs) designated in CAA Section 112

(b). This product does not contain Class 1 ozone depletors. This product does not contain Class

ozone depletors.

Clean Water Act (CWA): This product does not contain any Hazardous Substances listed under the CWA. This product does

not contain any Priority Pollutants. This does not contain Toxic pollutants.

California Prop. 65: This product contains no chemical(s) known to the state of California to cause birth defects or

reproductive harm in concentrations that exceed the threshold (de minimis) reporting levels

established under Proposition 65.

Other U.S. State Inventories: None of the components of this product are listed in the following State Hazardous Substances

Inventories, Right-to-Know lists and/or Air Quality/ Air Pollutants lists.

Canada (WHMIS): Uncontrolled product according to WHMIS classification criteria.

Canada (NPRI): Uncontrolled product according to WHMIS classification criteria.

Canada (DSL): Listed.



Canada (NDSL): Not listed.

Germany (WGK): 1 (slightly hazardous to water).

EU (EINECS): Listed.
China (IECSC): Listed.
Australia (AICS): Listed.
Japan (ENCS): Listed.
Philippines (PICCS): Listed.
Korea (KECI): Listed.
New Zealand (NZIoC): Listed.

16 OTHER INFORMATION

Revision Date: 06-Dec-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 suitableness & completeness of such information for his

own particular use.