# Glycolic Acid

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

Revision Date: 10-Feb-2026
Supersedes: 18-Jan-2024

## 1 PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Glycolic Acid
**Synonyms:** No data available
**INCI Name:** Glycolic Acid (and) Water
**CAS Number:** 79-14-1, 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

**GHS Classification:** Skin corrosion: Category 1
Serious eye damage: Category 1

**GHS Signal Word:** **DANGER!**

**GHS Hazard Pictograms:**

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

**GHS Precautionary Statements:** (Prevention) P264: Wash skin thoroughly after handling.
P280: Wear protective gloves, protective clothing, eye protection and face protection
(Response) P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER.
P303 + P361 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER.
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.
P363: Wash contaminated clothing before reuse.
(Storage) P405: Store locked up.
(Disposal) P501: Dispose of contents and container to an approved waste disposal plant.

**Potential Health Hazards:** Eyes: Causes serious eye damage.
Inhalation: Corrosive to respiratory system
Skin: Causes severe burns.
Ingestion: May cause nausea, vomiting, diarrhea, and digestive tract burns.

**NFPA Ratings (704):**

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| Health | 3 | Serious |
| Flammability | 1 | Slight |
| Reactivity | 0 | Minimal |
| Specific Hazard | N/A | |

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS No. | Weight % | Molecular Weight |
|---|---|---|---|
| Glycolic acid | 79-14-1 | ≥ 70 - < 90% | Not Available |
| Water | 7732-18-5 | ≥ 10 - < 30% | Not Available |

## 4 FIRST AID MEASURES

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove

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| | contact lens, if worn. Get medical attention immediately. |
| **Inhalation:** | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. |
| **Skin:** | In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| **Ingestion:** | Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If vomiting occurs have person lean forward. Call a physician or poison control center immediately. Rinse mouth thoroughly with water. |
| **Acute/Delayed Symptoms:** | Inhalation may provoke cough, shortness of breath, pain, irritation. Skin contact may provoke irritation, rash, necrosis, discomfort. Eye contact may provoke corrosion, ulceration, severe irritation, ingestion may provoke gastrointestinal discomfort, nausea, vomiting, diarrhea. Causes serious eye damage. Causes severe burns. Causes digestive tract burns. Corrosive to respiratory system. |
| **First Aid Notes:** | When symptoms persist or in all cases of doubt seek medical advice. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). Treat symptomatically and supportively. |

## 5 FIRE-FIGHTING MEASURES

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| **Suitable (and unsuitable) extinguishing media:** | May be combustible at high temperature. Use appropriate media (water spray, alcohol-resistant foam, carbon dioxide (CO2) Dry chemical) for adjacent fire. Do not use direct water jet. |
| **Special protective equipment & precautions for firefighters:** | Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area. |
| **Flash Points:** | > 212°F (>100°C) |
| **Specific hazards arising from the chemical:** | Exposure to combustion products may be a hazard to health. Hazardous combustion products include carbon oxides. See also Stability and Reactivity section. |

## 6 ACCIDENTAL RELEASE MEASURES

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| **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. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Notify environmental authorities in case of large leaks. |
| **Methods and material for containment and cleaning up:** | Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. Dispose of all waste and cleanup materials in accordance with regulations. |

## 7 HANDLING & STORAGE

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| **Precautions for safe handling:** | If sufficient ventilation is unavailable, use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment. Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment. Do not breathe decomposition products and avoid all skin, eye, and respiratory contact with the material. See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use. |
| **Conditions for safe storage, incl. any incompatibilities:** | Keep in properly labeled containers. Store locked up. Keep tightly closed, between >50°F (>10°C). Store in accordance with the particular national regulations. Reacts with many metals to liberate hydrogen gas which can form explosive mixtures with air. Hydrogen, a highly flammable gas, can accumulate to explosive concentrations inside drums, or any types of steel containers or tanks upon storage. Store in cool, dry well-ventilated area. Keep away from heat and incompatible materials (see section 10 for incompatibilities). |

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

| Component | Exposure Limits | Basis | Entity |
|---|---|---|---|
| Carbon dioxide | 5,000 ppm<br>9,000 mg/m³ | TWA | OSHA Z-1 |
| | 5,000 ppm<br>9,000 mg/m³ | TWA | NIOSH REL |
| | 5,000 ppm | TWA | ACGIH |
| | 30,000 ppm | STEL | ACGIH |
| | 30,000 ppm<br>54,000 mg/m³ | ST | NIOSH REL |

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:** Chemical resistant goggles must be worn. If splashes are likely to occur, wear a face-shield.

**Inhalation:** General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**Body:** Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using chemical resistant impervious protective clothing (gloves, aprons, boots, etc). Wash contaminated clothing before re-use.

**Other:** Use good personal hygiene practices. Processing may form hazardous compounds (see section 10). Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

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| **Appearance:** | Liquid | **Vapor Pressure at 25°C:** | 0.0041 hPa (for a component of this mixture) |
| **Odor:** | Slight | **Vapor Density:** | No data available |
| **Odor Threshold:** | No data available | **Evaporation Rate:** | No data available |
| **Color:** | Colorless | **Flammability:** | Not applicable |
| **Molecular Weight:** | No data available | **Upper/lower Explosive Limit:** | No data available |
| **pH at 25°C:** | 0.1 | **Flash Point:** | > 212°F (>100°C) |
| **Boiling Point:** | 234°F (112°C) (1,013 hPa) | **Specific Gravity:** | No data available |
| **Melting/Freeze Point:** | 50°F (10°C) | **Solubility in Water at 22°C:** | > 300 g/l (for a component of this mixture) |
| **Relative Density at 20°C:** | 1.26 | **Auto-Ignition Temperature:** | No data available |
| **Partition Coefficient: n-octanol/water at 20°C:** | log Pow: -1.07 (for a component of this mixture) | **Decomposition Temperature:** | No data available |
| **Viscosity, Dynamic at 16°C:** | 11.28 mPa.d | **Explosive Properties:** | Not explosive |
| **Viscosity, Kinematic at 23°C:** | 6.149 mm²/s | **Oxidizing Properties:** | Not classified |

## 10 STABILITY AND REACTIVITY

**Reactivity:** Not classified as a reactivity hazard.
**Chemical Stability:** Stable under normal conditions.
**Hazardous Polymerization:** Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures.
**Conditions to Avoid:** None known.
**Incompatible Materials:** Oxidizing agents and bases.
**Hazardous Decomposition Products:** Thermal decomposition products include carbon dioxide.

## 11 TOXICOLOGICAL INFORMATION

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| **Acute Toxicity:** | Not classified based on available information. |
| **Skin:** | The substance or mixture has no acute dermal toxicity. |
| **Eyes:** | Causes serious eye damage. (Rabbit) Component: Glycolic Acid; Method: OECD Test Guideline 405; Result: Irreversible effects on the eye. |
| **Respiratory:** | Acute toxicity estimate: 5.04 mg/l; Exposure time: 4 hours; Test atmosphere: dust/mist; Method: Calculation method. At atmospheric temperature, this product has only a minimal risk of inhalation due to its low vapor pressure. Inhalation of aerosol or fine spray mist may cause serious respiratory problems. Corrosive to the respiratory tract. |
| **Ingestion:** | Acute toxicity estimate: 2,854 mg/kg; Method: Calculation method. |
| **Routes of Exposure:** | Inhalation, skin contact, ingestion, eye contact. |
| **Carcinogenicity:** | No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, OSHA, or NTP. |
| **Teratogenicity:** | No data available. |
| **Germ Cell Mutagenicity:** | Weight of evidence does not support classification as a germ cell mutagen. |
| **Genotoxicity in vitro:** | Test Type: Bacterial reverse mutation assay (AMES); Method: OECD Test Guideline 471; Result: negative. Test Type: Chromosome aberration test in vitro; Method: OECD Test Guideline 473; Result: negative. Test Type: In vitro mammalian cell gene mutation test; Method: OECD Test Guideline 476; Result: negative. |
| **Genotoxicity in vivo:** | (Mouse) Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay); Application Route: Ingestion; Method: OECD Test Guideline 474; Result: negative. |
| **Specific Target Organ Toxicity:** | Not classified based on available information for single or repeated exposure. |
| **Reproductive Toxicity:** | Not classified based on available information. |
| **Skin/Respiratory Sensitization:** | Not classified based on available information. |
| **Skin Corrosion/Irritation:** | Causes severe burns. (Rabbit) Component: Glycolic Acid; Method: OECD Test Guideline 404; Result: Corrosive after 3 minutes to 1 hour of exposure. |
| **Aspiration Toxicity:** | Not classified based on available information. |

## 12 ECOLOGICAL INFORMATION

**Ecotoxicity**

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| **Aquatic Vertebrate:** | (fathead minnow) LC50: 114.8 mg/l; Exposure time: 96 hours. |
| **Aquatic Invertebrate:** | (Daphnia magna) EC50: 99.6 mg/l; Exposure time: 48 hours; Method: OECD Test Guideline 202. |
| **Algae/Aquatic Plants:** | (Pseudokirchneriella subcapitata) ErC50: 31.2 mg/l; Exposure time: 72 hours; Method: OECD Test Guideline 201; NOEC (Pseudokirchneriella subcapitata): 14.4 mg/l; Exposure time: 72 hours; Method: OECD Test Guideline 201. |
| **Persistence and Degradability:** | Readily biodegradable. Method: OECD Test Guideline 301B. |
| **Bioaccumulative Potential:** | No data available. |
| **Mobility in Soil:** | No data available. |
| **PBT and vPvB Assessment:** | No data available. |
| **Other Adverse Effects:** | No data available. |

## 13 DISPOSAL CONSIDERATIONS

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| **Waste Residues:** | Do not dispose of waste into sewer. 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 should be taken to an approved waste handling site for recycling or disposal. 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

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| **DOT (Dept. of Transportation, USA):** | UN/ID/NA number: UN 3265<br>Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Glycolic acid)<br>Class: 8 |

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| | Packing group: II<br>Labels: CORROSIVE<br>ERG Code: 153<br>Marine pollutant: no |
| **TDG (Transportation of Dangerous Goods, Canada):** | No data available |
| **IMDG (International Maritime Dangerous Goods):** | UN Number: UN 3265<br>Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.<br>Class: 8<br>Packing group: II<br>Labels: 8<br>EmS Code: F-A, S-B<br>Marine pollutant: no |
| **IATA (International Air Transport Association):** | UN/ID No: UN 3265<br>Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.<br>Class: 8<br>Packing group: II<br>Labels: Corrosive<br>Packing instruction (cargo aircraft): 855<br>Packing instruction (passenger aircraft): 851 |
| **ICAO (International Civil Aviation Organization):** | No data available |

## 15 REGULATORY INFORMATION

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| **TSCA Inventory Status:** | On or in compliance with the active portion of the TSCA inventory. |
| **CERCLA RQ:** | Listed substances in the product are at low enough levels to not be expected to exceed the reportable quantity. |
| **SARA 304:** | Listed substances in the product are at low enough levels to not be expected to exceed the reportable quantity. |
| **SARA 302:** | This material does not contain any components with a section 302 Extremely Hazardous Substances Threshold Planning Quantity. |
| **SARA 311/312 Hazards:** | Skin corrosion or irritation. Serious eye damage or eye irritation. |
| **SARA 313:** | This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. |
| **PA Right to Know:** | Glycolic acid (79-14-1), Water (7732-18-5). |
| **EU REACH:** | All products are compliant with REACH regulatory requirements. |
| **Canada (DSL):** | On the inventory, or in compliance with the inventory. |
| **China (IECSC):** | On the inventory, or in compliance with the inventory. |
| **Australia (AIIC):** | On the inventory, or in compliance with the inventory. |
| **Japan (ENCS):** | On the inventory, or in compliance with the inventory. |
| **Japan (ISHL):** | On the inventory, or in compliance with the inventory. |
| **Philippines (IECSC):** | On the inventory, or in compliance with the inventory |
| **Korea (KECI):** | On the inventory, or in compliance with the inventory. |
| **Taiwan (TCSI):** | On the inventory, or in compliance with the inventory. |
| **New Zealand NZIoC:** | On the inventory, or in compliance with the inventory. |

## 16 OTHER INFORMATION

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| **Revision Date:** | 10-Feb-2026 |
| **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. |