

SAFETY DATA SHEET (SDS)

Glycolic Acid 99.5% — Cosmetic Grade

IMPORTANT STATUS	Prepared as a professional technical reference based on the product identity shown on the supplied drum label and publicly available SDS information for Glycolic Acid (CAS 79-14-1). This document is not the original manufacturer-issued SDS and must not be represented as one.
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Product name	Glycolic Acid
Purity / assay	99.5% (as specified by the requested product description; verify against the supplier COA)
Grade	Cosmetic Grade
CAS No.	79-14-1
EC No.	201-180-5
Molecular formula	C ₂ H ₄ O ₃
Molecular weight	76.05 g/mol
Synonym	Hydroxyacetic acid
Supplier / exporter shown on label	NINGBO YIHO IMPORT AND EXPORT CO., LTD.
Manufacturing date shown on label	08-Dec-2022
Drum No. shown on label	50
Net weight shown on label	20 kg

Document control

Document type	16-section Safety Data Sheet (SDS)
Prepared for	Technical / procurement / handling reference
Revision	1.0
Preparation date	14-Sep-2026
Regulatory basis	GHS-style hazard communication; local jurisdictional requirements must be checked before use

SECTION 1. IDENTIFICATION

Product identifier: Glycolic Acid 99.5%

CAS: 79-14-1 EC: 201-180-5

Recommended use: Cosmetic raw material / industrial and professional formulation use.

Uses advised against: Do not use for food, pharmaceutical, medical or consumer applications unless the applicable specification and regulatory approval have been independently confirmed.

Supplier / exporter: NINGBO YIHO IMPORT AND EXPORT CO., LTD. (as shown on the supplied product label).

Emergency telephone: Not available from the supplied label. Obtain and insert the supplier's current emergency contact before regulatory submission or workplace posting.

SECTION 2. HAZARD(S) IDENTIFICATION

Signal word: DANGER

GHS classification used for this reference: Skin Corrosion Category 1B; Serious Eye Damage Category 1; Acute Toxicity — Inhalation (dust/mist) Category 4; Specific Target Organ Toxicity — Single Exposure Category 3 (respiratory tract irritation).

Hazard statements: H314 — Causes severe skin burns and eye damage. H332 — Harmful if inhaled. H335 — May cause respiratory irritation.

Pictograms: GHS05 (Corrosion), GHS07 (Exclamation Mark).

Other hazards: Dust/mist may irritate the respiratory tract. Avoid contact with skin and eyes.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance: Glycolic acid

CAS: 79-14-1 EC: 201-180-5

Concentration: 99.5% nominal for the requested product; the exact lot concentration must be confirmed by the supplier's COA.

SECTION 4. FIRST-AID MEASURES

Inhalation: Move the affected person to fresh air and keep comfortable for breathing. Obtain medical attention immediately if symptoms occur or persist.

Skin contact: Remove contaminated clothing immediately. Rinse skin thoroughly with plenty of water/shower for an extended period. Seek immediate medical attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain immediate medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

Most important symptoms: Severe irritation/burns to skin and eyes; respiratory irritation; harmful effects following inhalation.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use extinguishing media appropriate for the surrounding fire (water spray, dry chemical, foam or carbon dioxide as appropriate).

Specific hazards: Thermal decomposition may generate irritating or hazardous combustion products, including carbon oxides.

Protective equipment: Firefighters should wear full protective clothing and positive-pressure self-contained breathing apparatus where necessary.

Special procedures: Cool exposed containers with water spray if safe to do so.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Evacuate unnecessary personnel. Avoid breathing dust/mist and avoid skin/eye contact. Use suitable PPE.

Environmental precautions: Prevent uncontrolled release to drains, surface water and soil.

Methods for containment/cleaning: Carefully collect spilled material using suitable non-reactive equipment. Avoid creating airborne dust. Place in a suitable, closed container for disposal. Wash contaminated area with appropriate amounts of water after bulk removal, subject to local requirements.

SECTION 7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practices. Avoid generating dust/mist. Do not breathe vapors/aerosols. Avoid contact with skin and eyes. Provide adequate ventilation.

Storage: Keep container tightly closed in a cool, dry, well-ventilated area. Protect from incompatible materials and excessive heat. Store in accordance with local chemical-storage requirements.

Packaging: Keep only in the original or an appropriately compatible, correctly labelled container.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Local exhaust ventilation is recommended where dust/mist or aerosol can be generated. Provide eyewash and safety shower facilities in handling areas.

Respiratory protection: Use an appropriate particulate/mist respirator where ventilation is inadequate or exposure limits may be exceeded; select according to local occupational-health requirements.

Hand protection: Wear chemically resistant protective gloves suitable for the task and exposure duration.

Eye/face protection: Chemical splash goggles; use a face shield where there is a risk of splashing.

Body protection: Chemical-resistant protective clothing and closed footwear as appropriate.

Occupational exposure limits: No specific value is stated in this reference; follow applicable local occupational exposure regulations.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White/off-white crystalline solid (for high-purity solid material; verify actual supplied form).

Odour: Odourless to characteristic.

pH: Not applicable as a neat solid; aqueous pH depends on concentration.

Melting point/range: approximately 74–79 °C for high-purity glycolic acid.

Boiling point: Data may vary/decompose; not reliably applicable to neat material under ordinary conditions.

Solubility: Highly soluble in water.

Molecular weight: 76.05 g/mol.

Flash point: Not established in this reference.

Flammability/explosive properties: Not classified as readily flammable; avoid heating to decomposition.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Acidic organic substance; may react with bases and certain reactive chemicals.

Chemical stability: Stable under recommended storage and handling conditions.

Conditions to avoid: Excessive heat, contamination and incompatible materials.

Incompatible materials: Strong bases and strong oxidizing agents; assess compatibility before process use.

Hazardous decomposition products: Carbon oxides and other irritating decomposition products may form under fire or severe heating.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely routes of exposure: Inhalation of dust/mist, skin contact, eye contact and ingestion.

Acute effects: Harmful if inhaled; causes severe skin burns and serious eye damage.

Respiratory effects: May cause respiratory tract irritation.

Skin: Corrosive; prolonged or concentrated exposure may cause serious burns.

Eyes: Serious eye damage; risk of permanent injury.

Carcinogenicity / mutagenicity / reproductive toxicity: No classification is assigned in this reference based on the sources reviewed; consult the current supplier SDS for definitive regulatory classification.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Avoid uncontrolled environmental release. Substance-specific ecotoxicological data should be obtained from the current supplier SDS.

Persistence/degradability: No definitive value is assigned in this reference.

Bioaccumulative potential: No definitive value is assigned in this reference.

Mobility in soil: Expected to be mobile in aqueous systems; prevent release to soil and waterways.

Other adverse effects: Avoid discharge of concentrated material because of its acidity and potential local environmental effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of contents and container through an approved chemical-waste contractor in accordance with national and local regulations.

Do not discharge concentrated material into drains or surface water. Empty containers may retain hazardous residues; handle accordingly.

SECTION 14. TRANSPORT INFORMATION

Reference transport classification: UN 3261 — CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (contains glycolic acid), Class 8, Packing Group II is reported for 99.5% glycolic acid by some commercial SDS/specification sources.

Important: Transport classification can depend on physical form, concentration, packing, mode of transport and jurisdiction. The carrier's current dangerous-goods determination and the supplier's current SDS must be used for shipment documentation.

SECTION 15. REGULATORY INFORMATION

This reference follows the general structure and hazard-communication principles of a 16-section GHS-style SDS.

Applicable legislation may include GHS/CLP, OSHA HazCom or other national chemical-control and transport requirements depending on destination and use.

Regulatory status: This document does not constitute a regulatory registration, product approval, cosmetic compliance certificate, or manufacturer-issued SDS.

SECTION 16. OTHER INFORMATION

Key H-statements: H314 — Causes severe skin burns and eye damage. H332 — Harmful if inhaled. H335 — May cause respiratory irritation.

Preparation basis: Product identity from the supplied label plus publicly available SDS/specification information for Glycolic Acid CAS 79-14-1, including recent manufacturer/distributor SDS references.

Recommended verification before official use: Obtain the original Ningbo Yiho SDS, lot-specific COA, specification/TDS, exact concentration/form, emergency telephone number and transport classification from the supplier.

Disclaimer: Information is provided in good faith for technical reference and safe handling. It is not a substitute for the original supplier SDS or jurisdiction-specific regulatory advice. Users remain responsible for determining suitability and compliance.

SOURCE NOTES

Public references consulted include current/recent SDS information for Glycolic Acid CAS 79-14-1 from Fisher Scientific/Acros, Merck/Sigma-Aldrich, SynQuest, and commercial 99.5% product specifications. Hazard classification and transport details can vary by concentration, physical form and jurisdiction; the supplier's current SDS controls for the specific product.