## Section 1. Identification

**Product identifier**

| | |
|---|---|
| **Product Identity** | Glycolic Acid 99% (Tech Grade) |
| **Other means of identification** | Hydroxyacetic acid; hydroxyethanoic acid |

**Relevant identified uses of the substance or mixture and uses advised against**

Used as disinfectant and disincrustant in water and milkhouse.

**Details of the supplier of the safety data sheet**

| | |
|---|---|
| **Company Name** | Silver Fern Chemical, Inc.<br>121 W. De La Guerra Street, Suite B<br>Santa Barbara, CA 93101 USA<br>Customer Service: 1-866-282-3384 /<br>info@silverfernchemical.com<br>Website - www.silverfernchemical.com |
| **Emergency** | |
| **24 hour Emergency Telephone No.** | Emergency telephone number<br>Infotrac: 1-800-535-5053; Outside USA & Canada +1-352-323-3500 |
| **Customer Service:** | |

## Section 2. Hazard(s) identification

**Emergency Overview**

WARNING! MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR (DURING PROCESSING)

**Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)**

| | |
|---|---|
| Acute toxicity(inhalation), category 4;H332 | Harmful if inhaled. |
| Skin corrosion/irritation category 1B;H314 | Causes severe skin burns and eye damage. |

| | |
|---|---|
| Serious eye damage / eye irritation, category 1;H318 | Causes serious eye damage. |
| Combustible Dust | May form combustible dust concentrations in air. |

**Label elements**

**Warning**

H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.
May form combustible dust concentrations in air.

**[Prevention]**
P210 Keep away from heat, sparks, open flames, and other ignition sources - No smoking.
P240 Ground, bond container and receiving equipment.
P241 Use explosion-proof electrical, ventilating, light, equipment.
P260 Do not breathe dust, fume, mist, vapors or spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, eye protection, face protection.
**[Response]**
P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER, doctor or physician.
P312 Call a POISON CENTER, doctor or physician if you feel unwell.
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P363 Wash contaminated clothing before reuse.
P378 Use alcohol resistant foam, $CO_2$, powder, water spray for extinction. Do not use water jet.
**[Storage]**
P405 Store locked up.

**[Disposal]**
P501 Dispose of contents or container in accordance with local and national regulations.

**Other hazards**
This product contains no PBT/vPvB/vPvM chemicals.
This product contains no endocrine disrupting chemicals.
May form combustible dust concentrations in air.

Does not contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per US or Canadian regulations.

## Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

| Ingredient/Chemical Designations | Weight % | GHS Classification | Notes |
|---|---|---|---|
| Glycolic acid<br>CAS Number: 79-14-1<br>Synonyms: Hydroxyacetic acid | 80 - 100 | Acute toxicity(inhalation), category 4;H332<br>Skin corrosion/irritation category 1B;H314<br>Serious eye damage / eye irritation, category 1;H318 | No data available |

The actual concentration or concentration range is withheld as a trade secret.
*PBT/vPvB - PBT, vPvM or vPvB-substance.
The full texts of the phrases are shown in Section 16.

## Section 4. First aid measures

**Description of first aid measures**

**General** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

**Eyes** Rinse with plenty of clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

**Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
**Ingestion** If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

**Most important symptoms and effects, both acute and delayed**

**Overview** No specific symptom data available.
No chronic toxicity or long term toxicity information available. Treat symptomatically. See section 2 for further details.
**Inhalation** Harmful if inhaled.
**Eyes** Causes serious eye damage.
**Skin** Causes severe skin burns and eye damage.

## Section 5. Fire-fighting measures

**Extinguishing media**

Recommended extinguishing media; alcohol resistant foam, $CO_2$, powder, water spray.
Unsuitable extinguishing media: Do not use; water jet.

**Special hazards arising from the substance or mixture**

Hazardous decomposition: When heated, emits highly toxic and corrosive fumes of hydrogen compounds and hydrogen gas.
**Explosion:**Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Keep away from heat, sparks, open flames, and other ignition sources - No smoking.
Ground, bond container and receiving equipment.
Use explosion-proof electrical, ventilating, light, equipment.
Do not breathe dust, fume, mist, vapors or spray.

**Advice for fire-fighters**

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

Dust explosions are possible.

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## Section 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Put on appropriate personal protective equipment (see section 8).
Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Nonsparking tools should be used.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

**Environmental precautions**

**Explosion:**Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Do not allow spills to enter drains or waterways.

**Methods and material for containment and cleaning up**

Sweep or vacuum to clean up spills. Do not use any procedure which causes dispersion of dust into the air if any possibility of ignition exists. Dispose of in accordance with local, state and federal regulations.
Contain, dilute cautiously with water, and neutralize with soda ash or lime.

## Section 7. Handling and storage

**Precautions for safe handling**
Handle containers carefully to prevent damage and spillage.
Avoid dust generation when handling product to minimize dust explosion potential.
See section 2 for further details. - [Prevention]

**Conditions for safe storage, including any incompatibilities**
Keep container tightly closed.
Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Incompatible materials: Metal, glass, stoneware, alkali and strong concentrated acids.
See section 2 for further details. - [Storage]

**Specific end use(s)**
No available information

## Section 8. Exposure controls / personal protection

**Control parameters**

**Exposure Limits**

| CAS No. | Ingredient | Source | Value |
|---|---|---|---|
| 79-14-1 | Glycolic acid | OSHA | No Established Limit |
| | | ACGIH | No Established Limit |
| | | NIOSH | No Established Limit |

The exposure limits for nuisance dust are: OSHA PEL: 15 mg/m$^3$(50 mppcf*) TWA, ACGIH 10 mg/m$^3$.

| | |
|---|---|
| **Exposure controls** | |
| **Respiratory** | Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits. |
| **Eyes** | Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice. |
| **Skin** | Chemical resistant clothing such as coveralls/apron and boots should be worn. Chemical impervious gloves required. |
| **Engineering Controls** | It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen- deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks. |
| **Other Work Practices** | Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. |

See section 2 for further details.

## Section 9. Physical and chemical properties

**Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical State** | Crystal Powder |
| **Color** | No available information |
| **Odor** | Mild, burnt sugar |
| **Melting point / freezing point** | No available information |
| **Initial boiling point and boiling range** | No available information |
| **Flammability (solid, gas)** | Not Applicable |
| **Upper/lower flammability or explosive limits** | **Lower Explosive Limit:**Not determined<br>**Upper Explosive Limit:**Not determined |

| | |
|---|---|
| **Flash Point** | Does not flash |
| **Auto-ignition temperature** | Not determined |
| **Decomposition temperature** | No available information |
| **pH** | 0.1 (25°C,70% solution) |
| **Viscosity (cSt)** | No available information |
| **Solubility in Water** | Miscible |
| **Partition coefficient n-octanol/water (Log Kow)** | No available information |
| **Vapor pressure (Pa)** | Not applicable |
| **Relative Density** | No available information |
| **Vapor Density** | No information found |
| | |
| **Evaporation rate (Ether = 1)** | Not applicable |
| **Oxidising properties** | No available information |
| **Explosive properties** | No available information |

**Other information**
No other relevant information.

## Section 10. Stability and reactivity

**Reactivity**
Hazardous Polymerization will not occur.
**Chemical stability**
Stable under normal circumstances.
**Possibility of hazardous reactions**
No available information
**Conditions to avoid**
Excessive heat and open flame.
**Incompatible materials**
Metal, glass, stoneware, alkali and strong concentrated acids.
**Hazardous decomposition products**
When heated, emits highly toxic and corrosive fumes of hydrogen compounds and hydrogen gas.

## Section 11. Toxicological information

### Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| Ingredient | Oral LD50, mg/kg | Skin LD50, mg/kg | Inhalation Vapor LC50, mg/L/4hr | Inhalation Dust/Mist LC50, mg/L/4hr | Inhalation Gas LC50, ppm |
|---|---|---|---|---|---|
| Glycolic acid - (79-14-1) | 2,040.00, Rat - Category: 5 | No data available. | 14.00 - Category: 4 | No data available. | No data available. |

### Carcinogen Data

| CAS No. | Ingredient | Source | Value |
|---|---|---|---|
| 79-14-1 | Glycolic acid | OSHA | Regulated Carcinogen: No; |
| | | NTP | Known: No; Suspected: No; |
| | | IARC | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; |
| | | ACGIH | No Established Limit |

| Classification | Category | Hazard Description |
|---|---|---|
| Acute toxicity (oral) | --- | Not Applicable |
| Acute toxicity (dermal) | --- | Not Applicable |
| Acute toxicity (inhalation) | 4 | Harmful if inhaled. |
| Skin corrosion/irritation | 1B | Causes severe skin burns and eye damage. |
| Serious eye damage/irritation | 1 | Causes serious eye damage. |
| Respiratory sensitization | --- | Not Applicable |
| Skin sensitization | --- | Not Applicable |
| Germ cell mutagenicity | --- | Not Applicable |
| Carcinogenicity | --- | Not Applicable |
| Reproductive toxicity | --- | Not Applicable |
| STOT-single exposure | --- | Not Applicable |
| STOT-repeated exposure | --- | Not Applicable |
| Aspiration hazard | --- | Not Applicable |

**Possible routes of entry:**No available information

**Symptoms and effects, both acute and delayed:**
No specific symptom data available.
No chronic toxicity or long term toxicity information available. Treat symptomatically.

**Eyes** Causes serious eye damage.
**Skin** Causes severe skin burns and eye damage.

## Section 12. Ecological information

**Toxicity**
No additional information provided for this product. See Section 3 for chemical specific data.
**Aquatic Ecotoxicity**

| Ingredient | 96 hr LC50 fish, mg/L | 48 hr EC50 crustacea, mg/L | ErC50 algae, mg/L |
|---|---|---|---|
| Glycolic acid - (79-14-1) | 164.00, fathead minnow | No data available. | No data available. |

**Persistence and degradability**
There is no data available on the preparation itself.
**Bioaccumulative potential**
No available information
**Mobility in soil**
No available information
**Results of PBT and vPvB assessment**
This product contains no PBT/vPvB/vPvM chemicals.
**Other adverse effects**
No available information

## Section 13. Disposal considerations

**Waste treatment methods**
Observe all federal, provincial and local regulations when disposing of this substance.

## Section 14. Transport information

| | DOT (Domestic Surface Transportation) | IMO / IMDG (Ocean Transportation) | ICAO/IATA |
|---|---|---|---|
| **UN number** | UN3265 | UN3265 | UN3265 |
| **UN proper shipping name** | UN3265,Corrosive liquid, acidic, organic, n.o.s. (Glycolic Acid),8,III | Corrosive liquid, acidic, organic, n.o.s. (Glycolic Acid) | Corrosive liquid, acidic, organic, n.o.s. (Glycolic Acid) |
| **Transport hazard class(es)** | **Class:**8<br>**Sub Class:**Not Applicable | **Class:**8<br>**Sub Class:**Not Applicable | **Class:**8<br>**Sub Class:**Not Applicable |
| **Packing group** | II | II | II |

**Environmental hazards**

IMDG Marine Pollutant: No;

**Special precautions for user**

No available information

## Section 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

**Toxic Substance Control Act (TSCA)**

| CAS Number | Ingredient | Toxic Substance Control Act (TSCA) | Comments | Status |
|---|---|---|---|---|
| 0000079-14-1 | Glycolic acid | Yes | | ACTIVE |

The following flags are used:
•Active - indicates commercial status designation of active
•E - indicates a substance that is the subject of a Section 5(e) Consent Order under TSCA.
•F - indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
•N - indicates a polymeric substance containing no free-radical initiator in its Inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
•P - indicates a commenced Premanufacture Notice (PMN) substance.
•R - indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
•S - indicates a substance that is identified in a final Significant New Uses Rule.
•SP - indicates a substance that is identified in a proposed Significant New Uses Rule.
•T - indicates a substance that is the subject of a final Section 4 test rule under TSCA.
•UVCB Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials •XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
•Y1 - indicates a polymer that has a number-average molecular weight greater than 1,000 and that was exempt under the 1984 polymer exemption rule.
•Y2 - indicates a polymer that is a polyester and that was exempt under the 1984 polymer exemption rule.

**EPCRA 302 Extremely Hazardous:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Carcinogens (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 Label Warning:**
This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**Mass RTK Substances (>1%) :**
(No Product Ingredients Listed)

**New Jersey RTK Substances (>1%) :**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Pennsylvania RTK Substances (>1%) :**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**OSHA Process Safety Management Standard Highly Hazardous Chemicals, Toxics and Reactives:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US EPA List of Regulated Substances under the Risk Management Plan (RMP) Program:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) under the Minimum Risk Exemption:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**U.S. - DEA List II or Essential Chemicals:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**U.S. - DEA - Exempt Chemical Mixtures - List 1 and 2:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US DHS Chemical Facility Anti-Terrorism Standards (CFATS):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 311/312 Chemicals and RQs:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

## Section 16. Other information

**Revision Date** 05/30/2025

**DISCLAIMER OF RESPONSIBILITY**
The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.3

The full text of the phrases appearing in section 3 is:

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

**End of Document**