



SILVER FERN
CHEMICAL INC

Silver Fern Chemical, Inc.
Safety Data Sheet (SDS)
PURAC Lactic Acid 88% FCC

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Issue date 06/28/2018

Reviewed on 09/12/2018

1. Identification

- **Product Identifier**
- **Name of the product:** Lactic Acid 88% FCC
- **CAS Number:** 79-33-4 (general 50-21-5)
- **Recommended Use:** Food flavoring

- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Silver Fern Chemical, Inc.
2226 Queen Anne Avenue North
Seattle, WA 98109, USA
Telephone: : 1-866-282-3384
Email: info@silverfernchemical.com
- **Emergency telephone number:**
Infotrac: 800-535-5053 & Outside USA & Canada: 352-323-3500

2. Hazard(s) Identification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

- **Classification of the substance or mixture:**



- **GHS05 Corrosion OSHA Regulatory Status**
- **Signal Word:** Danger
- **Hazard Statements:** Causes skin irritation. Causes serious eye damage.

- **Precautionary Statements:**
- **Prevention:** Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
- **Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
- **Skin:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before re-use.
- **Main Symptoms:** Causes severe damage to eyes: Burning feeling and temporary redness, pain. Causes skin irritation: Itching, Redness.



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2. Hazard(s) Identification (continued)

- **Environmental Hazard:** Contains no substances known to be hazardous for the environment.
- **Interactions with Other Chemicals:** Incompatible materials: Oxidizing agents.
- **Hazards Not Otherwise Classified (HNOC):** None Known.
- **Unknown Toxicity:** 0% of the mixture consists of ingredient(s) of unknown toxicity.

3. Composition/ Information on ingredients

- **Chemical Characterization:** Substances
- **CAS No. Description:** 79-33-4 Lactic Acid

4. First-aid measures

- **General Advice:** Keep person warm and at rest. If symptoms persist or if in doubt in any case, seek medical advice. Wash contaminated clothing before re-use.
- **Eye Contact:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult a physician.
- **Skin Contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician.
- **Ingestion:** Rinse mouth. Get medical attention immediately if symptoms occur.
- **Inhalation:** Move to fresh air. Get medical attention immediately if symptoms occur.
- **Notes to Physician:** Treat symptomatically.
- **Protection of First-aiders:** Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. Firefighting measures

- **Flammable Properties:** No information available.
- **Flash Point:** Not applicable
- **Autoignition Temperature:** > 400°C solution (93%)
- **Suitable Extinguishing Media:** CO₂, water spray, foam, dry powder.
- **Special Hazard:** None in particular.
- **Advice for Firefighters:** Wear self-contained breathing apparatus and protective suit.
- **Additional Information:** Move containers from fire area if possible. Keep containers and surroundings cool with water spray. Prevent fire extinguishing water from contaminating surface water or ground water system.

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6. Accidental release measures

- **Personal precautions:** Evacuate personnel to safe area. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Ensure adequate ventilation.
- **Environmental precautions:** Should not be released into the environment. Do not allow into surface water or ground water system.
- **Methods and materials for containment and cleaning up:** Large amounts: Prevent further leakage or spillage if safe to do so. Dike to collect large amounts. Cover with a plastic sheet. Use a non-combustible material like vermiculite, sand or earth to soak up product. Sweep or shovel into suitable containers for disposal. Following product recovery, flush area with water. Small amounts: Wipe up with absorbent material (e.g. cloth, fleece). After cleaning, flush away traces with water. Never return spills to original containers for re-use.

7. Handling and storage

- **Handling:** Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Ensure adequate ventilation. Wash hands thoroughly after handling.
- **Storage:** Store in accordance with local regulations. Keep containers closed in a cool, well-ventilated area. Keep at temperatures below 200°C/392°F. Incompatible with oxidizing agents.

8. Exposure controls / personal protection

- **Exposure Guidelines:** Contains no substances with occupational exposure limit values.
- **Engineering Controls:** Ensure adequate ventilation. Keep at temperatures below 200°C/392°F. Ensure eyewash stations and safety showers are close to the workstation location.
- **Personal Protective Equipment:**



- **Eye protection:** Safety glasses.
- **Hand protection:** protective gloves, butyl rubber, thickness .5mm. Breakthrough time > 8 hours.
- **Skin and body protection:** long sleeved clothing.



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8. Exposure controls / personal protection (continued)

- **Respiratory protection:** In case of inadequate ventilation, wear respiratory protection.

9. Physical and chemical properties

- **Physical State @ 20°C:** Liquid
- **Appearance:** Clear
- **Color:** Colorless/yellowish
- **Odor:** Sour
- **pH:** < 1.2 (@25°C)
- **Melting/Freezing Point:** Melting Point - 18°C (64°F)/Freezing Point – No information
- **Boiling Point/boiling range:** 120-130°C (249-266°F) @ 1013 hPa
- **Flash Point:** Not applicable
- **Evaporation Rate:** Not applicable
- **Flammability (solid, gas):** Not applicable
- **Flammability Limits in Air:** Not determined
- **Explosion Limits:** Not applicable
- **Vapor Pressure:** Not applicable
- **Vapor Density:** Not applicable
- **Relative Density:** Not determined
- **Water Solubility:** Miscible
- **Partition coefficient (n-octanol/water):** Not determined
- **Autoignition Temperature:** > 400°C (solution 93%)
- **Decomposition Temperature:** > 200°C / > 392°F
- **Viscosity, dynamic:** 5-60 mPa.s (@25°C)
- **Explosive properties:** Not applicable
- **Oxidizing properties:** Not applicable
- **Density:** 1.2/cm³
- **Surface Tension:** 44-50 (mN/m @ 50-9%)

10. Stability and reactivity

- **Stability:** Stable under recommended storage conditions.
- **Materials to Avoid:** Oxidizing agents.
- **Conditions to avoid:** Temperatures above 200°C/392°F.
- **Hazardous Decomposition Products:** None under normal use.



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10. Stability and reactivity (continued)

- **Hazardous Polymerization:** None known.
- **Hazardous reactions:** No information available.

11. Toxicological information

- **Acute Toxicity:**
- **Ingestion:** No known effect (LD50 Oral, rat female 3542 mg/kg
Oral, rat male 4936 mg/kg)
- **Skin contact:** No known effect (LD50 Dermal, rabbit: >2000 mg/kg)
- **Inhalation:** No known effect (LC50 Inhalation, Rat, >7.94 mg/L 4h)

- **Primary irritant effect:**
- **On the skin:** Causes skin irritation.
- **On the eyes:** Strong irritant with the danger of severe eye damage.
- **Sensitization:** No sensitizing affects known.
- **Aspiration hazard:** No known effect.

- **Chronic Toxicity:**
- **Carcinogenicity:** Contains no ingredient listed as a carcinogen.
- **Germ cell mutagenicity:** Not known to cause heritable genetic damage.
- **Reproductive toxicity:** Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.
- **STOT-single exposure:** No known effect.
- **STOT-repeated exposure:** No known effect.

12. Ecological information

- **Ecotoxicity Effects:** Contains no substances known to be hazardous for the environment.
- **Aquatic Toxicity:**
- **Toxicity to algae:** EC50: >2.8 g/L 72h Pseudokirchnrella subcapitata.
EC50: 3.5 g/L 70h Pseudokirchnrella subcapitata.
- **Toxicity to fish:** LC50: 130 mg/L 96h Oncorhynchus mykiss
LC50: 320 mg/L 96h Danio rerio.
- **Toxicity to microorganisms:** LC50: >100 mg/L 3h



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12. Ecological information (continued)

- **Toxicity to daphnia & other invertebrates:** EC50: 130 mg/L 48h Daphnia magna
EC50: 250 mg/L 48h Daphnia magna
- **Persistence and Degradability:** Readily biodegradable.
- **Bioaccumulative potential:** Does not bioaccumulate.
- **Mobility in Soil:** No information available.
- **General Notes:** Water hazard Class 3 (self-assessment). Do not allow product to reach ground water, water course or sewage system, even in small quantities.
- **PBT and vPvB assessment:** Not considered to be persistent, bioaccumulative and toxic.
- **Other adverse effects:** No information available.

13. Disposal considerations

- **Waste Disposal Methods:** Dispose of in accordance with local regulations.
- **Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

- **According to US DOT, IMDG, ICAO/IATA, ADR. Not regulated**

15. Regulatory information

- **International Inventories:**
- **TSCA:** Listed
- **DSL:** Listed
- **NDSL:** Not Listed
TSCA – United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List
- **Federal Regulations:**
- **SARA 31/312 Hazardous Categorization:**
- **Acute Health Hazard:** No
- **Chronic Health Hazard:** No
- **Fire Hazard:** No
- **Sudden Release of Pressure Hazard:** No
- **Reactive Hazard:** No
- **Clean Water Act:** This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)



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15. Regulatory information (continued)

- **CERCLA:** This material, as supplied, does not contain substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)
- **State Regulations:**
- **California Proposition 65:** This product does not contain any Proposition 65 chemicals.
- **U.S. State Right-to-Know Regulations:** No information available.
- **Other Information:** No information available.
- **International Regulations:**
- **Canada:** No information available.

16. Other information

- **Abbreviations/acronyms:**
- **ACGIH TLV:** American Conference of Governmental Industrial Hygienists – Threshold Limit Value
- **OSHA PEL:** Occupational Safety and Health Administration – Permissible Exposure Limits
- **NIOSH IDLH:** National Institute for Occupational Safety and Health – Immediately Dangerous to Life or Health
- **OSHA:** Occupational Safety and Health Administration
- **IARP:** International Agency for Research on Cancer
- **NTP:** National Toxicity Program
- **SARA:** Superfund Amendments and Reauthorization Act
- **ACGIH:** American Conference of Governmental Industrial Hygienists
- **CFR:** U.S. Code of Federal Regulations
- **NFPA:** National Fire Protection Association
- **HMIS:** Hazardous Materials Identification System
- **ADR:** Accord europeen relatif au transport international des marchandises Dangereuses par Route
- **DOT:** Department of Transport
- **IMDG:** International Maritime Dangerous Goods Code
- **IATA:** International Air Transport Association
- **ICAO:** International Civil Aviation Organization



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16. Other information (continued)

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