## Section 1. Identification

**Product identifier**

| | |
|---|---|
| **Product Identity** | Lauric Acid |
| **Other means of identification** | n-dodecanoic acid, 1-undecanecarboxylic acid, laurostearic acid & others |

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

manufacture of alkyd resins, soaps, surfactants, insecticides and food additives

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

| | |
|---|---|
| **Company Name** | Silver Fern Chemical, Inc.<br>2226 Queen Anne Avenue North<br>Seattle, WA 98109 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

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

Serious eye damage / eye irritation, category 1;H318 Causes serious eye damage.

**Label elements**

**Danger**

H318 Causes serious eye damage.

**[Prevention]**
P280 Wear protective gloves, eye protection, and face protection.
**[Response]**
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.
**[Storage]**
No GHS storage statements
**[Disposal]**
No GHS disposal statements

**Other hazards**
This product contains no PBT/vPvB/vPvM chemicals.
This product contains no endocrine disrupting chemicals.

## 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 |
|---|---|---|---|
| Lauric acid<br>CAS Number: 143-07-7<br>Synonyms: Lauric acid | 100% | 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.
Treat symptomatically. See section 2 for further details.

**Eyes** Causes serious 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

Static Discharge- product dust is combustible may become an explosion hazard.
Combustion Products carbon monoxide, nitrogen oxides, smoke, corrosive aldehydes.

### Advice for fire-fighters

Treat as an oil fire, 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.

**ERG Guide No.** ----

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).
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

Do not allow spills to enter drains or waterways.

### Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.
Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

## Section 7. Handling and storage

### Precautions for safe handling

Handle containers carefully to prevent damage and spillage.
See section 2 for further details. - [Prevention]

### Conditions for safe storage, including any incompatibilities

Store away from oxidising agents and alkalis. Never cut, drill, weld or grind on or near this container, whether empty or full. To ensure product longevity in storage replace drum or IBC cover or ensure that bags are intact.

Lauric acid dust is potentially flammable/explosive. Avoid generating product dust. If dust forms in processing, install adequate ventilation to clear workplace air. Molten material is above 50°C (120°F) – a burn hazard to exposed skin.
Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.
See section 2 for further details. - [Storage]

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

## Section 8. Exposure controls / personal protection

**Control parameters**

**Exposure**

| CAS No. | Ingredient | Source | Value |
|---|---|---|---|
| 143-07-7 | Lauric acid | OSHA | No Established Limit |
| | | ACGIH | No Established Limit |
| | | NIOSH | No Established Limit |

**Exposure controls**

**Respiratory** If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

**Eyes** Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

**Skin** Avoid skin contact. Protective gloves recommended.

**Engineering Controls** Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

**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** | Crystals |
| **Color** | White colorless or slightly yellow crystals |
| **Odor** | Faint Odor |
| **Odour Threshold** | 0.1ppm |
| **Melting point / freezing point** | 44-46°C / 111-115°F |
| **Initial boiling point and boiling range** | 299°C / 570°F[1] |
| **Flammability (solid, gas)** | No available information |
| **Upper/lower flammability or explosive limits** | **Lower Explosive Limit:** No available information<br><br>**Upper Explosive Limit:** No available information |
| **Flash Point** | 163°C / 325°F (Open Cup); above 160°C / 320°F (Cleveland open cup)[1] |
| **Auto-ignition temperature** | >250°C / >482°F[1] |
| **Decomposition temperature** | No available information |
| **pH** | none – does not yield hydrogen ions in solution |
| **Viscosity (cSt)** | No available information |
| **Solubility in Water** | 4.8mg/litre1 (20°C / 68°F) – virtually insoluble<br>- in other solvents vegetable - oils, hydrocarbons, acetone, diethyl ether |
| **Partition coefficient n-octanol/water (Log Kow)** | Log Po/w (Octanol/H2O Partition Coefficient) 4.6; also 5.051 |
| **Vapor pressure (Pa)** | 0.0075mmHg / <0.001kPa (25°C / 77°F)1; 1mmHg / 0.13kPa (121°C / 250°F) |
| **Relative Density** | 0.88 (20/20°C) |
| **Vapor Density** | ~7 – theoretical value |
| **Evaporation rate (Ether = 1)** | not known – not volatile |
| **Oxidising properties** | No available information |
| **Explosive properties** | No available information |
| **Molecular Weight** | 200grams/mole |

**Other information**
No other relevant information.

## Section 10. Stability and reactivity

**Reactivity**
Strong oxidizing agents, strong reducing agents.
Saponification with strong alkalis may be vigorous, particularly in the presence of methanol
**Chemical stability**
Stable under normal circumstances.
**Possibility of hazardous reactions**
No available information
**Conditions to avoid**
Avoid high temperatures and contact with incompatible material
**Incompatible materials**
No available information
**Hazardous decomposition products**
peroxides and aldehydes may form on prolonged storage in contact with air.

## 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 |
|---|---|---|---|---|---|
| Lauric acid - (143-07-7) | > 5,000.00, Rat - Category: NA | >2,000.00, Rabbit - Category: 5 | No data available. | No data available. | No data available. |

### Carcinogen Data

| CAS No. | Ingredient | Source | Value |
|---|---|---|---|
| 143-07-7 | Lauric 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) | --- | Not Applicable |
| Skin corrosion/irritation | --- | Not Applicable |
| 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:

**Symptoms and effects, both acute and delayed:**:
No specific symptom data available.
Treat symptomatically.

**Eyes** Causes serious 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 |
|---|---|---|---|
| Lauric acid - (143-07-7) | 5.00, Oryzias latipes | 3.60, Daphnia magna | 86.00, Pseudokirchneriella subcapitata |

**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** | Not Regulated | Not Regulated | Not Regulated |
| **UN proper shipping name** | Not Regulated | Not Regulated | Not Regulated |
| **Transport hazard class(es)** | **DOT Hazard Class:** Not Applicable<br>**Sub Class:** Not Applicable | **IMDG:** Not Applicable<br>**Sub Class:** Not Applicable | **Air Class:** Not Applicable<br>**Sub Class:** Not Applicable |
| **Packing group** | Not Applicable | Not Applicable | Not Applicable |

**Environmental hazards**

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 |
|---|---|---|---|---|
| 0000143-07-7 | Lauric 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.

**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%) :**

**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.

## Section 16. Other information

**Revision Date** 11/15/2024

**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.

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

H318 Causes serious eye damage.

**End of Document**