



# SILVER FERN CHEMICAL, INC.

## Safety Data Sheet

### FERNFAT DCFA 0818

Revision Date : 17 Feb 2017

First Issued : 01 Feb 2014

#### 1. Chemical Product and Company Identification

- a. Product Description : Distilled Coconut Fatty Acid
- b. Product Name : FERNFAT DCFA 0818
- c. Identification No. : CAS No. 67701-05-7 EC No. 266-929-0
- d. Recommended use : Raw material for manufacturing oleochemical derivatives
- e. Distributor :  
Silver Fern Chemical, Inc.  
2226 Queen Anne Avenue North, Suite C  
Seattle WA 98109, USA  
Phone: 1-866-282-3384  
[info@silverfernchemical.com](mailto:info@silverfernchemical.com)

**24 Hour Emergency Contact** : Infotrac 1-800-535-5053 (USA & Canada)  
Outside USA & Canada 1-352-323-3500

#### 2. Hazards Identification

##### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Eye Dam. 1; H318

Skin Irrit. 2; H315

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3 and 4 of Annex I to CLP.

##### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Product identifier**

67701-05-7 (Fatty acids, C8-18 and C18-unsatd.)

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### Hazard pictograms



GHS05

### Signal word

Danger

### Hazard statements

H315 Causes skin irritation.  
H318 Causes serious eye damage.

### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 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.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing.

## 3. Composition/Information on Ingredients

### Substances

#### Chemical characterization

Substance name : Coconut Fatty Acids

#### Identification numbers

CAS No. : 61788-47-4  
EC No. : 262-978-7

## 4. First-aid Measures

- a. **Eye contact**  
Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention urgently.
- b. **Skin contact**  
Wash skin thoroughly with soap and water. Remove contaminated clothing as washing proceeds.
- c. **Inhalation**  
Remove from exposure. Keep warm and at rest. Seek medical Attention if you feel unwell.
- d. **Ingestion**  
Wash out mouth with water. Do not induce vomiting. Keep warm and at rest. Seek medical.
- e. **Most important acute and delayed symptoms/effects**  
None

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### 5. Fire Fighting Measures

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- a. **Suitable (and unsuitable) extinguishing media**  
Use dry powder, water spray, foam, carbon dioxide for extinguishing. Avoid using large quantities of water.
- b. **Specific hazards arising from the chemical (e.g. hazardous combustion products)**  
Irritating and highly toxic gases may be generated by thermal decomposition or combustion.
- c. **Special protective equipment and precautions for fire-fighters**  
Wear a self-containing breathing apparatus and full protective gear.

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### 6. Accidental Release Measures

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- a. **Measures required for personal protection and protective equipment**  
Use rubber gloves, air respirator, goggles, safety shoes and lab coat. Remove contaminated clothing and wash hands between breaks and at end of duty hours. Locate eye washes and emergency showers in all work and storage areas.
- b. **Measures required for environment protection:** Not available
- c. **Clean-up and removal method**  
Remove all potential ignition sources. Contain spilled material. Cover with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Clean with hot water & detergents. Observe state, federal & local disposal regulations

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### 7. Handling and Storage

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- a. **Precautions for safe handling**  
Use in well ventilated areas. Avoid creating dust. Avoid inhaling dust. Avoid contact with skin eyes and clothes. Wear personal protective equipment (see section 8). Wear respiratory protection. Material can be slippery underfoot.
- b. **Conditions for safe storage (including incompatibilities)**  
Keep away from drains, soils, surface & ground waters. Store in tightly closed original container when not in use. Storage area should be cool and dry. Keep away from ignition sources & naked flames. Store according to hazard classification.
- c. **Recommended handling temperature**  
Refer to Heating Instruction

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### 8. Exposure Controls and Personal Protective Equipment

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- a. **Exposure limits of the chemical substance, biological exposure limits and etc.**  
None established.
- b. **Appropriate engineering controls**  
Use normal precautionary measures for handling chemicals.
- c. **Personal protective equipment**
  - Protection of respiratory system : Wear air respirator
  - Eye protection : Wear goggles

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- Hand protection : Wear protective gloves
- Body protection : Wear protective clothing, safety shoes
- Hand protection : Wear protective gloves
- Body protection : Wear protective clothing, safety shoes

### 9. Physical and Chemical Properties

- |   |                                |
|---|--------------------------------|
| a. Appearance (physical state, color, etc.) | : Clear until yellowish liquid |
| b. Melting point                            | : about 26 °C                  |
| c. Boiling point                            | : >240 °C @ 760mm Hg           |
| d. Flash point                              | : >100 °C                      |
| e. Density                                  | : about 0.87 g/ml at 40 °C     |
| f. Particle Size Distribution               | : Not applicable               |
| g. Vapor Pressure                           | : <1.0 mmHg @ 22°C             |
| h. Partition coefficient : n-octanol/water  | : Not available                |
| i. Water Solubility                         | : Not available                |
| j. Surface Tension                          | : Not available                |
| k. Auto Flammability                        | : Not available                |
| l. Flammability                             | : Not available                |
| m. Explosiveness                            | : Not available                |
| n. Oxidizing Properties                     | : Not available                |
| o. Stability in organic solvent             | : Not available                |
| p. Dissociation constant                    | : Not available                |
| q. Viscosity                                | : Not available                |

### 10. Stability and Reactivity

- a. Chemical stability: Not available.
- b. Possibility of hazardous reactions: Not available
- c. Conditions to avoid (e.g. static discharge, shock, vibration, etc.): Extreme heat, cold or direct fire
- d. Incompatible materials: Oxidant
- e. Hazardous decomposition products : None known

### 11. Toxicological Information

#### 11.1 Information on toxicological effects

| Acute oral toxicity   |                |            |
|-----------------------|----------------|------------|
| LD50                  | >              | 5000 mg/kg |
| Species               | rat            |            |
| Reference substance   | CAS 90990-08-2 |            |
| Method                | OECD 401       |            |
| Acute dermal toxicity |                |            |
| LD50                  | >              | 2000 mg/kg |
| Species               | rabbit         |            |
| Reference substance   | CAS 57-11-4    |            |
| Method                | OECD 434       |            |

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| Acute inhalational toxicity |              |        |                   |
|-----------------------------|--------------|--------|-------------------|
| LC50                        | >            | 0.1521 | mg/m <sup>3</sup> |
| Species                     | rat          |        |                   |
| Reference substance         | CAS 124-07-2 |        |                   |

| Skin corrosion/irritation |          |
|---------------------------|----------|
| Species                   | rabbit   |
| Evaluation                | irritant |

| Serious eye damage/irritation |          |
|-------------------------------|----------|
| Species                       | rabbit   |
| Evaluation                    | irritant |

| Respiratory or skin sensitisation |                 |
|-----------------------------------|-----------------|
| Route of exposure                 | Skin            |
| Species                           | guinea pig      |
| Reference substance               | CAS 123-99-9    |
| Evaluation                        | non-sensitizing |

| Germ cell mutagenicity |                                    |
|------------------------|------------------------------------|
| Type of examination    | Bacterial Reverse Mutation Test    |
| Species                | Salmonella typhimurium             |
| Reference substance    | CAS 143-07-7                       |
| Evaluation             | negative                           |
| Type of examination    | Mammalian cell gene mutation assay |
| Species                | mouse                              |
| Reference substance    | CAS 334-48-5                       |
| Method                 | OECD 476                           |
| Evaluation             | negative                           |

| Reproduction toxicity |              |      |         |
|-----------------------|--------------|------|---------|
| NOAEL                 |              | 1000 | mg/kg/d |
| Species               | rat          |      |         |
| Reference substance   | CAS 112-85-6 |      |         |
| Method                | OECD 422     |      |         |

| Carcinogenicity   |  |
|-------------------|--|
| No data available |  |

| STOT-single exposure |  |
|----------------------|--|
| No data available    |  |

| STOT-repeated exposure |              |      |       |
|------------------------|--------------|------|-------|
| NOAEL                  |              | 1000 | mg/kg |
| Species                | rat          |      |       |
| Reference substance    | CAS 112-85-6 |      |       |
| Method                 | OECD 422     |      |       |

| Aspiration hazard |  |
|-------------------|--|
| No data available |  |

| Delayed and immediate effects as well as chronic effects from short and long-term exposure |  |
|--|--|
| Eye contact may lead to severe irritation and eye damage. Irritating to skin.              |  |

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## 12. Effects on the Environment

### 12.1 Toxicity

| Toxicity to fish (acute) |                 |    |      |
|--------------------------|-----------------|----|------|
| LC50                     |                 | 5  | mg/l |
| Duration of exposure     |                 | 96 | h    |
| Species                  | Oryzias latipes |    |      |
| Reference substance      | CAS 143-07-7    |    |      |
| Method                   | OECD 203        |    |      |
| NOEC                     |                 | 2  | mg/l |
| Species                  | Danio rerio     |    |      |
| Reference substance      | CAS 629-25-4    |    |      |

| Toxicity to fish (chronic) |  |  |  |
|----------------------------|--|--|--|
| No data available          |  |  |  |

| Toxicity to Daphnia (acute) |               |      |        |
|-----------------------------|---------------|------|--------|
| EC50                        |               | 3.6  | mg/l   |
| Duration of exposure        |               | 48   | h      |
| Species                     | Daphnia magna |      |        |
| Reference substance         | CAS 143-07-7  |      |        |
| Method                      | OECD 202      |      |        |
| NOEC                        |               | 0.31 | mg/l   |
| Duration of exposure        |               | 21   | day(s) |
| Species                     | Daphnia magna |      |        |
| Reference substance         | CAS 544-63-8  |      |        |
| Method                      | OECD 211      |      |        |

| Toxicity to Daphnia (chronic) |  |  |  |
|-------------------------------|--|--|--|
| No data available             |  |  |  |

| Toxicity to algae (acute) |                                 |     |      |
|---------------------------|---------------------------------|-----|------|
| EC50                      | >                               | 7.6 | mg/l |
| Duration of exposure      |                                 | 72  | h    |
| Species                   | Pseudokirchneriella subcapitata |     |      |
| Reference substance       | CAS 143-07-7                    |     |      |
| Method                    | OECD 201                        |     |      |

| Toxicity to algae (chronic) |  |  |  |
|-----------------------------|--|--|--|
| No data available           |  |  |  |

| Bacteria toxicity    |                    |     |      |
|----------------------|--------------------|-----|------|
| EC10                 |                    | 912 | mg/l |
| Duration of exposure |                    | 18  | h    |
| Species              | Pseudomonas putida |     |      |
| Reference substance  | CAS 124-07-2       |     |      |

### 12.2 Persistence and degradability

| Biodegradability |                       |
|------------------|-----------------------|
| Evaluation       | readily biodegradable |

### 12.3 Bioaccumulative potential

| Bioconcentration factor (BCF) |              |
|-------------------------------|--------------|
| BCF                           | 234 - 288    |
| Species                       | Danio rerio  |
| Reference substance           | CAS 629-25-4 |
| Method                        | OECD 305 E   |

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| Partition coefficient: n-octanol/water |                |
|--|----------------|
| log Pow                                | 3.3            |
| Reference temperature                  | 23 °C          |
| Reference substance                    | CAS 90990-08-2 |
| Method                                 | OECD 107       |
| Remarks                                | pH 4.8         |

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

| Results of PBT and vPvB assessment |   |
|------------------------------------|---|
| PBT assessment                     | The product is not considered to be a PBT.  |
| vPvB assessment                    | The product is not considered to be a vPvB. |

### 12.6 Other adverse effects

No data available.

### 12.7 Other information

| Other information  |
|--|
| Do not discharge product unmonitored into the environment. |

## 13. Disposal Considerations

- Disposal methods: Waste may be disposed of by a licensed waste disposal company. Follow local, state and federal disposal regulations.
- Precautions for disposal (including the disposal method of contaminated containers and packages).  
Product and packaging should be disposed of in accordance with the local, state and federal regulations.

## 14. Transport Information

- UN number : Not available
- UN proper shipping name : Not available
- Transport hazard classes : Not hazardous according to RID/ADR, GGVS/GGVE, ADNR, IMDG, ICAO-TI/IATA-DGR.
- Packing group, if applicable : Not available
- Environmental hazard :  
Marine pollutant (yes/no) : No

## 15. Regulatory Information

- Industrial Safety and Health Law : Not available
- Toxic Chemical Control Law : Not available
- Dangerous Substance Safety Management Law : Not available
- Wastes Management Law : Not available
- Other regulations in domestic and foreign countries  
Observe prescribed Federal, State and Local measures for dealing with chemicals listed on EINECS (EU), TSCA-CSI (USA), DSL (Canada), AICS (Australia), ENCS (Japan), ECL



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(Korea), PICCS (the Philippines) and IECSC (China).

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## 16. Other Information

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