

# Safety Data Sheet

## Oleic Acid

**CAROLINA**<sup>®</sup>  
www.carolina.com

### Section 1 Product Description

**Product Name:** Oleic Acid  
**Recommended Use:** Science education applications  
**Synonyms:** 9, 10-Octadecenoic Acid  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

#### WARNING



Causes skin irritation.

**GHS Classification:**  
Skin Corrosion/Irritation Category 2

|                                                     |                                                                    |
|-----------------------------------------------------|--------------------------------------------------------------------|
| <b>Acute Toxicity Dermal Contains</b>               | 100 % of the mixture consists of ingredient(s) of unknown toxicity |
| <b>Acute Toxicity Inhalation Gas Contains</b>       | 100 % of the mixture consists of ingredient(s) of unknown toxicity |
| <b>Acute Toxicity Inhalation Vapor Contains</b>     | 100 % of the mixture consists of ingredient(s) of unknown toxicity |
| <b>Acute Toxicity Inhalation Dust/Mist Contains</b> | 100 % of the mixture consists of ingredient(s) of unknown toxicity |

### Section 3 Composition / Information on Ingredients

| <u>Chemical Name</u> | <u>CAS #</u> | <u>%</u> |
|----------------------|--------------|----------|
| Oleic Acid           | 112-80-1     | 100      |

### Section 4 First Aid Measures

#### Emergency and First Aid Procedures

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.  
**Eyes:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**Skin Contact:** 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 reuse.  
**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Section 5 Firefighting Procedures

**Extinguishing Media:** Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.

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|                                              |                                                                                                           |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Fire Fighting Methods and Protection:</b> | Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. |
| <b>Fire and/or Explosion Hazards:</b>        | N/A                                                                                                       |
| <b>Hazardous Combustion Products:</b>        | Carbon dioxide, Carbon monoxide                                                                           |

## Section 6 Spill or Leak Procedures

|                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Steps to Take in Case Material Is Released or Spilled:</b> | Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid contact with material. Avoid breathing dust/fume/gas/mist/vapors/spray.<br>Ventilate the contaminated area. Absorb the liquid and scrub the area with detergent and water. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container Wash area with soap and water Contain the discharged material. Do not flush spill to drain. |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Section 7 Handling and Storage

|                      |                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling:</b>     | Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid direct sunlight and heat. |
| <b>Storage:</b>      | Keep container tightly closed in a cool, well-ventilated place.                                                                            |
| <b>Storage Code:</b> | Green - general chemical storage                                                                                                           |

## Section 8 Protection Information

| <u>Chemical Name</u> | <u>ACGIH</u>            | <u>OSHA PEL</u>         |
|----------------------|-------------------------|-------------------------|
| No data available    | (TWA) N/A<br>(STEL) N/A | (TWA) N/A<br>(STEL) N/A |

### Control Parameters

|                                             |                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engineering Measures:</b>                | No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.                                                                                                                                                                                             |
| <b>Personal Protective Equipment (PPE):</b> | Lab coat, apron, eye wash, safety shower.                                                                                                                                                                                                                                                                                                                          |
| <b>Respiratory Protection:</b>              | No respiratory protection required under normal conditions of use.                                                                                                                                                                                                                                                                                                 |
| <b>Eye Protection:</b>                      | Wear chemical splash goggles when handling this product. Have an eye wash station available.                                                                                                                                                                                                                                                                       |
| <b>Skin Protection:</b>                     | Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. |
| <b>Gloves:</b>                              | Nitrile                                                                                                                                                                                                                                                                                                                                                            |

## Section 9 Physical Data

|                                                   |                                                     |
|---------------------------------------------------|-----------------------------------------------------|
| <b>Formula:</b> C18H34O2                          | <b>Vapor Pressure:</b> 0.000000546 mmHg at 25 °C    |
| <b>Molecular Weight:</b> 282.45                   | <b>Evaporation Rate (BuAc=1):</b> N/A               |
| <b>Appearance:</b> Colorless to pale amber Liquid | <b>Vapor Density (Air=1):</b> N/A                   |
| <b>Odor:</b> No data available                    | <b>Specific Gravity:</b> .89 at °C                  |
| <b>Odor Threshold:</b> No data available          | <b>Solubility in Water:</b> Practically Insoluble   |
| <b>pH:</b> No data available                      | <b>Log Pow (calculated):</b> No data available      |
| <b>Melting Point:</b> 14 C                        | <b>Autoignition Temperature:</b> 363 C              |
| <b>Boiling Point:</b> 194 - 195 C                 | <b>Decomposition Temperature:</b> No data available |
| <b>Flash Point:</b> 199 - 218 C                   | <b>Viscosity:</b> No data available                 |
| <b>Flammable Limits in Air:</b> N/A               | <b>Percent Volatile by Volume:</b> N/A              |

## Section 10 Reactivity Data

|                                |                                 |
|--------------------------------|---------------------------------|
| <b>Reactivity:</b>             | No data available               |
| <b>Chemical Stability:</b>     | Stable under normal conditions. |
| <b>Conditions to Avoid:</b>    | None known.                     |
| <b>Incompatible Materials:</b> | Strong oxidizing agents         |

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Hazardous Polymerization:

Will not occur

## Section 11

## Toxicity Data

**Routes of Entry:** Inhalation and skin contact.  
**Symptoms (Acute):** , Eye disorders, Respiratory disorders  
**Delayed Effects:** No data available

### Acute Toxicity:

#### Chemical Name

Oleic Acid

#### CAS Number

112-80-1

#### Oral LD50

Oral LD50 Mouse

28000 mg/kg

Oral LD50 Rat

25000 mg/kg

#### Dermal LD50

Not determined

#### Inhalation LC50

Not determined

### Carcinogenicity:

#### Chemical Name

No data available

#### CAS Number

112-80-1

#### IARC

Not listed

#### NTP

Not listed

#### OSHA

Not listed

### Chronic Effects:

#### Mutagenicity:

No evidence of a mutagenic effect.

#### Teratogenicity:

No evidence of a teratogenic effect (birth defect).

#### Sensitization:

No evidence of a sensitization effect.

#### Reproductive:

No evidence of negative reproductive effects.

#### Target Organ Effects:

##### Acute:

See Section 2

##### Chronic:

Tumorigenic data cited., Reproductive data cited., Not listed as a carcinogen by IARC, NTP or OSHA.

## Section 12

## Ecological Data

### Overview:

This material is not expected to be harmful to the ecology. Keep out of waterways.

### Mobility:

No data

### Persistence:

No data

### Bioaccumulation:

No data

### Degradability:

No data

### Other Adverse Effects:

No data

### Chemical Name

Oleic Acid

### CAS Number

112-80-1

### Eco Toxicity

96 HR LC50 PIMEPHALES PROMELAS 205 MG/L [STATIC]

## Section 13

## Disposal Information

### Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

### Waste Disposal Code(s):

Not Determined

## Section 14

## Transport Information

### Ground - DOT Proper Shipping Name:

N/A

### Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

## Section 15

## Regulatory Information

### TSCA Status:

All components in this product are on the TSCA Inventory.

### Chemical Name

#### CAS Number

#### § 313 Name

#### § 304 RQ

#### CERCLA RQ

#### § 302 TPQ

#### CAA 112(2) TQ

No data available

112-80-1

No

No

No

No

No

Oleic Acid

# Safety Data Sheet

## Section 16

## Additional Information

Revised: 09/09/2015

Replaces: 09/03/2014

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

### Glossary

|        |                                                                       |      |                                               |
|--------|-----------------------------------------------------------------------|------|-----------------------------------------------|
| ACGIH  | American Conference of Governmental Industrial Hygienists             | NTP  | National Toxicology Program                   |
| CAS    | Chemical Abstract Service Number                                      | OSHA | Occupational Safety and Health Administration |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act | PEL  | Permissible Exposure Limit                    |
| DOT    | U.S. Department of Transportation                                     | ppm  | Parts per million                             |
| IARC   | International Agency for Research on Cancer                           | RCRA | Resource Conservation and Recovery Act        |
| N/A    | Not Available                                                         | SARA | Superfund Amendments and Reauthorization Act  |
|        |                                                                       | TLV  | Threshold Limit Value                         |
|        |                                                                       | TSCA | Toxic Substances Control Act                  |
|        |                                                                       | IDLH | Immediately dangerous to life and health      |