

# **OLEIC ACID (U-13C18, 98%)**

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/04/2019 Revision date: 09/01/2020 Supersedes: 02/04/2019 Version: 1.1

CLM-460-0.1MG

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

Substance name : OLEIC ACID (U-13C18, 98%) EC-No. : 204-007-1 (Unlabeled)

CAS-No. : 287100-82-7
Product code : CLM-460-0.1MG

Formula : \*CH3(\*CH2)7\*CH=\*CH(\*CH2)7\*COOH
Synonyms : Elainic acid / cis-9-Octadecenoic acid

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

### 1.2.2. Uses advised against

No additional information available

# 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com

# **Emergency telephone number**

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315 Eye Irrit. 2 H319

Full text of hazard classes and H-statements : see section 16

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36/38

Full text of R-phrases: see section 16

#### **GHS-US** classification

Skin Irrit. 2 H315 Eye Irrit. 2 H319

Full text of H statements : see section 16

# Adverse physicochemical, human health and environmental effects

Lungs, Respiratory System.

09/01/2020 EN (English US) 1/7

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 2.2. **Label elements**

#### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : Warning

: H315 - Causes skin irritation Hazard statements (CLP)

H319 - Causes serious eye irritation

Precautionary statements (CLP) P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear eye protection, face protection, protective clothing, protective gloves. 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. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

#### **GHS-US** labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) H315 - Causes skin irritation

H319 - Causes serious eye irritation

P264 - Wash hands, forearms and face thoroughly after handling. Precautionary statements (GHS-US)

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P302+P352 - If on skin: Wash with plenty of water

P321 - Specific treatment (see Hazardous component(s) for labeling on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.

#### Other hazards

No additional information available

# **SECTION 3: Composition/Information on ingredients**

#### 3.1. **Substances**

Name	Product identifier	%	Classification according to Directive 67/548/EEC
OLEIC ACID (U-13C18, 98%)	(CAS-No.) 287100-82-7 (EC-No.) 204-007-1 (Unlabeled)	100	Xi; R36/38
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
OLEIC ACID (U-13C18, 98%)	(CAS-No.) 287100-82-7 (EC-No.) 204-007-1 (Unlabeled)	100	Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
OLEIC ACID (U-13C18, 98%) (Main constituent)	(CAS-No.) 287100-82-7	100	Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of H-phrases: see section 16

# **Mixtures**

Not applicable

09/01/2020 EN (English US) 2/7

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.

First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. If not breathing give

artificial respiration. Get medical advice/attention.

First-aid measures after skin contact : Wash with plenty of soap and water. and soap. Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get

medical advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing

apparatus. Do not enter fire area without proper protective equipment, including respiratory

protection.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Wear recommended personal protective equipment.

# SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures : Avoid breathing vapors, mist, gas. Avoid dust formation.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

# 6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

For containment : Clean up any spills as soon as possible, using an absorbent material to collect it. Small

quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or

earth for subsequent safe disposal.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

# 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation to minimize dust and/or vapor concentrations.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety

practice.

# 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a well-ventilated place. Keep container tightly closed. Storage conditions : Store in freezer (-80°C). Protect from light, air and moisture.

# 7.3. Specific end use(s)

No additional information available

09/01/2020 EN (English US) 3/7

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

# SECTION 8: Exposure controls/personal protection

#### **Control parameters**

No additional information available

### **Exposure controls**

: Wash hands and other exposed areas with mild soap and water before eating, drinking or Appropriate engineering controls

smoking and when leaving work.

Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus. Personal protective equipment









Materials for protective clothing : Wear suitable protective clothing and gloves. Hand protection

Wear suitable protective clothing and gloves.

Eye protection Wear eye protection. Chemical goggles or face shield with safety glasses.

Skin and body protection Wear suitable protective clothing, gloves and eye/face protection.

In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator. Respiratory protection

Environmental exposure controls : Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid : Liquid **Appearance** 

300.33 g/mol (Labeled) Molecular mass Color Colourless, Clear No data available Odor Odor threshold No data available No data available рΗ

Relative evaporation rate (butyl acetate=1) No data available : 13 - 14 °C (55 - 57 °F) - lit. Melting point

Freezing point : No data available

: 194 - 195 °C (381 - 383 °F) at 1.6 hPa (1.2 mmHg) - lit. **Boiling point** 

Flash point : > 113 °C (> 235 °F) - closed cup

Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) No data available

Vapor pressure 1 hPa (1 mmHg) at 176 °C (349 °F)

Relative vapor density at 20 °C : No data available Relative density : No data available

: 0.89 g/mL at 25 °C (77 °F) Specific gravity / density

Solubility : No data available Log Pow : No data available : No data available Log Kow Viscosity, kinematic : No data available No data available Viscosity, dynamic Explosive properties : No data available : No data available Oxidizing properties **Explosion limits** : No data available

#### Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No additional information available

# **Chemical stability**

Five years after receipt if stored as stated in "Storage" section. Re-QC after 5 years.

09/01/2020 EN (English US)

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Air contact.

#### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

# SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

OLEIC ACID (U-13C18, 98%) (287100-82-7)	
LD50 oral rat	74000 mg/kg
ATE CLP (oral)	74000.000 mg/kg body weight
LD50 Intravenous - Rat - 2.4 mg/kg Remarks	Lungs, Thorax, or Respiration: Acute pulmonary edema. Lungs, Thorax, or Respiration: Other: Changes.
LD50 Intravenous - Mouse - 230 mg/kg Remarks	Behavioral: Convulsions or effect on seizure threshold.
Additional information	. LD50 Intraperitoneal - Mouse - 282 mg/kg.

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity – single exposure : Not classified
No data available

Specific target organ toxicity – repeated

exposure

: Not classified

No data available

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be

construed as guaranteeing any specific property of the product.

: May be harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after inhalation : May be harmful if inhaled. May Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms/effects after ingestion : May be harmful if swallowed.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

OLEIC ACID (U-13C18, 98%) (287100-82-7)	
LC50 fish 1	205 mg/l Pimephales promelas (fathead minnow) - 96 h

# 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

# 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

09/01/2020 EN (English US) 5/7

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 12.6. Other adverse effects

Other adverse effects : Disposal must be done according to official regulations. May cause long lasting harmful effects

#### to aquatic life.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and local

environmental control regulations.

Product/Packaging disposal recommendations : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

professional waste disposal service to dispose of this material.

Ecology - waste materials : Dispose of as unused product.

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

# 14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : Not classified as dangerous in the meaning of transport regulations.

#### **Overland transport**

No additional information available

#### Transport by sea

No additional information available

# Air transport

No additional information available

#### 14.4. Environmental hazards

Other information : No supplementary information available.

# 14.5. Special precautions for user

Special transport precautions : Not classified as dangerous in the meaning of transport regulations.

# 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

OLEIC ACID (U-13C18, 98%) (287100-82-7)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.

# 15.2. International regulations

#### **CANADA**

# OLEIC ACID (U-13C18, 98%) (287100-82-7)

Listed on the Canadian DSL (Domestic Substances List)

# 15.2.1. National regulations

No additional information available

09/01/2020 EN (English US) 6/7

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 15.3. US State regulations

OLEIC ACID (U-13C18, 98%)(287100-82-7)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List

# **SECTION 16: Other information**

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

#### Full text of R-, H- and EUH-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
H315	Causes skin irritation
H319	Causes serious eye irritation
R36/38	Irritating to eyes and skin
Xi	Irritant

NFPA health hazard : 0 - Materials that, under emergency conditions, would offer

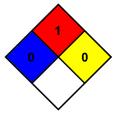
no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can

occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



### **Hazard Rating**

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 1 Slight Hazard
Physical : 0 Minimal Hazard

# CIL Substance SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

09/01/2020 EN (English US) 7/7