

SECTION 1: Identification of the substance/mixture

1.1. Product identifier

Product form	: Substance
Substance name	: Oleic Acid
Formula	: $C_{18}H_{34}O_2$
Molecular weight	: 282.46 g/mol
CAS No.	: 112-80-1
Product code	: LW-OLEIC
Synonyms	: Elainic acid

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

Use of the substance/mixture	: Laboratory chemicals, Manufacture of substances
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1.3. Emergency telephone number

Emergency number	: 1.800.424.9300 (USA) +1.703.527.3887 (INT)
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SECTION 2: Hazards Identification


2.1. Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. GHS Label elements, including precautionary statements

Pictogram	: 
Signal word	: Warning
Hazard statement(s)	
H315	: Causes skin irritation.
Precautionary statement(s)	
P264	: Wash skin thoroughly after handling.
P280	: Wear protective gloves.
P302 + P352	: IF ON SKIN: Wash with plenty of soap and water.
P332 + P313	: If skin irritation occurs: Get medical advice/ attention.
P362	: Take off contaminated clothing and wash before reuse.

2.3. Hazards not otherwise classified (HNOC) or not covered by GHS

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none

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous components

Component	Classification	Concentration
Oleic Acid	Skin Irrit. 2; H315	<= 100 %
For the full text of the H-Statements mentioned in this Section, see Section 16.		

SECTION 4: Description of first aid measures

4.1. Description of first aid measures

- General advice : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
- First-aid measures after inhalation : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- First-aid measures after skin contact : Wash off with soap and plenty of water. Consult a physician.
- First-aid measures after eye contact : Flush eyes with water as a precaution.
- First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Carbon oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. More Information

No data available

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature -20 °C

Storage class (TRGS 510): Non Combustible Liquids

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3. Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under

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Skin Protection	<p>appropriate government standards such as NIOSH (US) or EN 166(EU).</p> <p>: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.</p> <p>Full contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)</p> <p>Splash contact Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 30 min Material tested: Dermatril® P (KCL 743 / Aldrich Z677388, Size M)</p> <p>data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374</p> <p>If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.</p>
Body protection	<p>: Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p>
Respiratory protection	<p>: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.</p> <p>If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).</p>
Environmental exposure controls	<p>: Do not let product enter drains.</p>

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	: Form: liquid Color: translucent amber
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Melting point/freezing point	: Melting point/range: 13 - 14 °C (55 - 57 °F) - lit.
Initial boiling point and boiling range	: 194 - 195 °C (381 - 383 °F) at 1.6 hPa (1.2 mmHg) - lit.
Flash point	: > 113 °C (> 235 °F) - closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper/lower flammability or explosive limits	: No data available
Vapor pressure	: 1 hPa (1 mmHg) at 176 °C (349 °F)
Vapor density	: No data available
Relative density	: 0.89 g/cm ³ at 25 °C (77 °F)
Water solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

Relative vapor density	: No data available
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SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

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No data available

10.4. Conditions to avoid

Air sensitive.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: LD50 Oral - Rat - 74,000 mg/kg Inhalation: No data available Dermal: No data available LD50 Intravenous - Rat - 2.4 mg/kg Remarks: Lungs, Thorax, or Respiration: Acute pulmonary edema. Lungs, Thorax, or Respiration: Other changes. LD50 Intraperitoneal - Mouse - 282 mg/kg LD50 Intravenous - Mouse - 230 mg/kg Remarks: Behavioral: Convulsions or effect on seizure threshold.
Skin corrosion/irritation	: Skin - Human Result: Skin irritation - 3 d
Serious eye damage/irritation	: Eyes - Rabbit Result: Mild eye irritation
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	
IARC:	: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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OSHA:	:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	:	No data available
Specific target organ toxicity (single exposure)	:	No data available
Specific target organ toxicity (repeated exposure)	:	No data available
Aspiration hazard	:	No data available
Additional Information	:	RTECS: RG2275000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish : LC50 - Pimephales promelas (fathead minnow) - 205 mg/l - 96 h

12.2. Persistence and degradability

Biodegradability : No data available

12.3. Bioaccumulative potential : No data available

12.4. Mobility in soil : No data available

12.5. Results of PBT and vPvB assessment : PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6. Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging : Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

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Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Oleic Acid	CAS-No.	Revision Date
	112-80-1	1989-08-11

New Jersey Right To Know Components

Oleic Acid	CAS-No.	Revision Date
	112-80-1	1989-08-11

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H315 : Causes skin irritation.
Skin Irrit. : Skin irritation

HMIS Rating

Health Hazard : 2
Chronic Health Hazard :
Flammability : 0
Physical Hazard : 0

NFPA Rating

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Health hazard : 2
Fire Hazard : 0
Reactivity Hazard : 0

Further Information

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