



**HI-VALLEY CHEMICAL**  
LABORATORY PRODUCTS

1134 W. 850 N.      CENTERVILLE, UT 84014  
(801) 295-9591      Fax (801) 295-9448  
www.hvchemical.com

**SAFETY DATA SHEET**

Hi Valley Chemical

**Oleic Acid**

**1 PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** Oleic Acid  
**Synonyms:** Elainic acid, cis-9-Octadecenoic acid  
**SDS Number:** R-086  
**Product Code:** 516681-PT, 516681-1G, 516681-5, 516681-450  
**Revision Date:** 5/18/2016  
**Version:** 1  
**Supplier Details:** High Valley Products, Inc.  
 1134 West 850 North  
 Centerville, Utah 84014  
**Emergency:** PERS: 800-633-8253  
**Phone:** 801-295-9591  
**Fax:** 801-295-9448  
**Email:** sales@hvchemical.com  
**Web:** www.hvchemical.com

**2 HAZARDS IDENTIFICATION**

**Classification of the Substance or Mixture**

**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**  
 Health, Skin corrosion/irritation, 2

**GHS Label Elements, Including Precautionary Statements**

**GHS Signal Word:** **WARNING**

**GHS Hazard Pictograms:**



**GHS Hazard Statements:**

H315 - Causes skin irritation

**GHS Precautionary Statements:**

P264 - Wash skin thoroughly after handling.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+352 - IF ON SKIN: Wash with soap and water.  
 P332+313 - If skin irritation occurs: Get medical advice/attention.  
 P362 - Take off contaminated clothing and wash before reuse.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

**Ingredients:**

Cas#	%	Chemical Name
112-80-1	70%	oleic acid

**4 FIRST AID MEASURES**

**Inhalation:** If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.  
**Skin Contact:** Wash with soap and water. Consult a physician.  
**Eye Contact:** Flush eyes with water as a precaution.  
**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5 FIRE FIGHTING MEASURES

Extinguishing media  
Suitable extinguishing media  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture  
Carbon oxides

Advice for firefighters  
Wear self-contained breathing apparatus for firefighting if necessary.

Further information  
No data

## 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**  
Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions:**  
Do not let product enter drains.

**Methods and materials for containment and cleaning up:**  
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## 7 HANDLING AND STORAGE

**Handling Precautions:** Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or mist.  
**Storage Requirements:** Keep container tightly closed. Store in cool/dry and well ventilated area.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Personal Protective Equipment:** Oleic acid (112-80-1) []  
Personal protective equipment  
Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  
Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves 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.  
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)  
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) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 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.

Body Protection: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. 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).

Control of environmental exposure: Do not let product enter drains.

#### Exposure Guidelines:

Oleic acid (112-80-1) [] : Do not let product enter drains.

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### PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Colorless.	<b>Odor:</b>	No data available
<b>Physical State:</b>	Liquid	<b>Molecular Formula:</b>	C18H34O2
<b>Odor Threshold:</b>	No data available	<b>Solubility:</b>	No data available
<b>Spec Grav./Density:</b>	No data available	<b>Heat Value:</b>	No data available
<b>Viscosity:</b>	No data available	<b>Freezing/Melting Pt.:</b>	13 - 14 C (55 - 57 F)
<b>Boiling Point:</b>	194 - 195 C (381 - 383 F) at 1.6 hPa (1.2 m	<b>Flash Point:</b>	No data available
<b>Flammability:</b>	No data available.	<b>Octanol:</b>	No data available
<b>Partition Coefficient:</b>	No data available	<b>Vapor Density:</b>	No data available
<b>Vapor Pressure:</b>	No data available	<b>VOC:</b>	No data available
<b>pH:</b>	No data available	<b>Bulk Density:</b>	0.89 g/cm3 at 25 C (77 F)
<b>Evap. Rate:</b>	No data available.	<b>Auto-Ignition Temp:</b>	No data available
<b>Molecular weight:</b>	282.46	<b>UFL/LFL:</b>	No data available
<b>Decomp Temp:</b>	No data available		

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### STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Conditions to Avoid:</b>	Air sensitive
<b>Materials to Avoid:</b>	Strong Oxidizing Agents.
<b>Hazardous Decomposition:</b>	No data available

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### TOXICOLOGICAL INFORMATION

Oleic acid (112-80-1) []

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/eye irritation: Eyes - rabbit Result: Mild eye irritation

Respiratory or skin sensitisation: 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.

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.

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**ECOLOGICAL INFORMATION**

Oleic acid (112-80-1) []

Information on ecological effects

**Toxicity:**

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

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

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

Other adverse effects: no data available

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**DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

Not hazardous product according to these transport classifications.

Component (CAS#) [%] - CODES

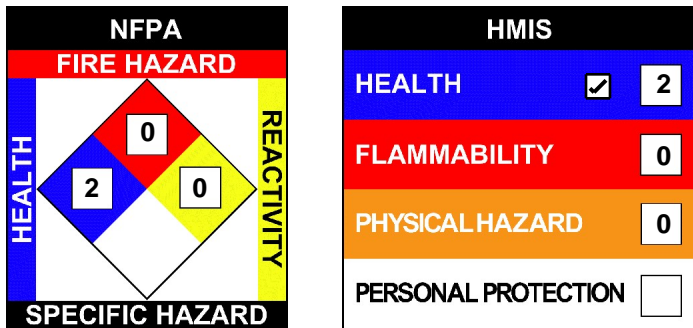
Oleic acid (112-80-1) [n/a%] PA, TSCA

Regulatory CODE Descriptions

PA = PA Right-To-Know List of Hazardous Substances  
TSCA = Toxic Substances Control Act

NFPA: Health = 2, Fire = 0, Reactivity = 0, Specific Hazard = n/a

HMIS III: Health = 2(Chronic), Fire = 0, Physical Hazard = 0



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