



SIGMA-ALDRICH

Material Safety Data Sheet

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Version 1.0

Section 1 - Product and Company Information

Product Name 1-OCTENE, 98%
Product Number O4806
Brand Aldrich Chemical

Company Sigma-Aldrich
Street Address 3050 Spruce Street
City, State, Zip, Country St. Louis, MO, 63103, US
Technical Phone: 314 771 5765
Fax 800 325 5052

Emergency Phone: 414 273 3850 Ext.5996

Section 2 - Composition/Information on Ingredient

Substance Name
1-OCTENE

CAS #
111-66-0

SARA 313
No

Formula C8H16
Synonyms

Section 3 - Hazards Identification

Emergency Overview

Flammable. Harmful.

Harmful by inhalation and if swallowed. Irritating to eyes, respiratory system, and skin.

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure

Contamination of the eyes should be treated by immediate and prolonged irrigation with copious amounts of water. Assure adequate flushing of the eyes by separating the eyelids with fingers.

Information for Physician

Contamination of the eyes should be treated by immediate and prolonged irrigation with copious amounts of water.

Section 5 - Fire Fighting Measures

Explosion Hazards

Vapor may travel considerable distance to source of ignition and flash back.
Container explosion may occur under fire conditions.
Forms explosive mixtures in air.

Flash Point: 46.4 °F 8 °C
Explosion Limits: Lower: 0.7 % Upper: 3.9 %
Autoignition Temp: 230 °C **Flammability:** N/A

Extinguishing Media

Suitable

Carbon dioxide, dry chemical powder, or appropriate foam.

Unsuitable

Water may be effective for cooling, but may not effect extinguishment.

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Vapor may travel considerable distance to source of ignition and flash back. Extremely flammable.

Specific Method(s) of Fire Fighting

Use water spray to cool fire-exposed containers.

Exposure Hazard(s)

Material

Irritant.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area. Shut off all sources of ignition.

Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Cover with an activated carbon adsorbent, take up and place in closed containers. Transport outdoors. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling

User Exposure

Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed. Keep away from heat, sparks, and open flame. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Other

Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

General Hygiene Measures

Wash thoroughly after handling. Remove and wash contaminated clothing promptly.

Section 9 - Physical/Chemical Properties

Appearance

Color
Colorless

Form
Clear liquid

Molecular Weight: 112.22 AMU

<u>Property</u>	<u>Value</u>
pH	N/A
BP/BP Range	121 - 122 °C
MP/MP Range	-101 °C
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	3.9 g/l
Saturated Vapor Conc.	N/A
SG/Density	0.715 g/cm ³
Bulk Density	N/A
Odor Threshold	N/A
Volatile%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point °F	46.4 °F
Flash Point °C	8 °C
Explosion Limits	Lower: 0.7 % Upper: 3.9 %
Autoignition Temp	230 °C
Refractive Index	1.408
Solubility	N/A

Section 10 - Stability and Reactivity

Stability

Materials to Avoid

Acids, Oxidizing agents.

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

Causes skin irritation.

Multiple Routes

Harmful if inhaled or swallowed. Vapor or mist is irritating to the eyes, mucous membranes, and upper respiratory tract.

Signs and Symptoms of Exposure

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

RTECS Number:

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: Flammable liquids, n.o.s.

UN#: 1993

Class: 3

Packing Group: Packing Group II

PIH: Not PIH

IATA

Proper Shipping Name: Hydrocarbons, liquid, n.o.s.

IATA Number: 3295

Hazard Class: 3

Packing Group: II

Section 15 - Regulatory Information

US Classification and Label Text

Indication of Danger

Flammable. Harmful.

Risk Statements

Harmful by inhalation and if swallowed. Irritating to eyes, respiratory system, and skin.

Safety Statements

Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

United States Regulatory Information

SARA 313 Listed: No

Section 16 - Other Information

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 1999 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.