



SIGMA-ALDRICH

Material Safety Data Sheet

Date Printed: 08/01/2000

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Version 1.0

Section 1 - Product and Company Information

Product Name 2-OCTANONE, 98%
Product Number O4709
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	CAS #	SARA 313
2-OCTANONE	111-13-7	No

Formula C₈H₁₆O
Synonyms Hexyl methyl ketone, n-Hexyl methyl ketone, Methyl hexyl ketone, 2-Oxoctane

Section 3 - Hazards Identification

Emergency Overview
Combustible.

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
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

Flash Point:	132.8 °F	56 °C
Autoignition Temp:	N/A	Flammability: N/A

Extinguishing Media

Suitable

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting

Protective Equipment

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

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area.

Procedure(s) of Personal Precaution(s)

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

Methods for Cleaning Up

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling

User Exposure

Do not breathe vapor. Do not get in eyes, on skin, on clothing.

Storage

Suitable

Keep tightly closed. Keep away from heat 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

Respiratory

NIOSH/MSHA-approved respirator.

Hand

Rubber gloves.

Eye

Chemical safety goggles.

General Hygiene Measures

Wash thoroughly after handling. Wash contaminated clothing before reuse.

Section 9 - Physical/Chemical Properties

Appearance

Color
Colorless

Form
Clear liquid

Molecular Weight: 128.22 AMU

<u>Property</u>	<u>Value</u>	<u>At Temperature or Pressure</u>
pH	N/A	
BP/BP Range	173 °C	760 mmHg
MP/MP Range	-16 °C	
Freezing Point	N/A	

Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
SG/Density	0.818 g/cm3
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	132.8 °F
Flash Point °C	56 °C
Explosion Limits	N/A
Autoignition Temp	N/A
Refractive Index	1.416
Solubility	N/A

Section 10 - Stability and Reactivity

Stability

Materials to Avoid

Strong oxidizing agents, Strong reducing agents, Strong bases.

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

May cause skin irritation.

Eye Contact

May cause eye irritation.

Multiple Routes

May be harmful by inhalation, ingestion, or skin absorption.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: RH1484000

Toxicity Data

Oral - Rat: 3,089 mg/kg (LD50)

Inhalation - Rat: > 2,132 ppm (LC50)

Intraperitoneal - Rat: 800 MG/KG (LD50)

Oral - Mouse: 3,824 mg/kg (LD50)

Intraperitoneal - Mouse: 800 MG/KG (LD50)

Skin - Rabbit: 1,337 mg/kg (LD50)

Irritation Data

Skin - Rabbit: 500 mg 24H

Remarks: mild irritation effect

Chronic Exposure - Reproductive Hazard

<u>Species</u>	<u>Dose</u>	<u>Route of Application</u>	<u>Exposure Time</u>
Mouse	1 GM/KG	Intraperitoneal	(1-20D PREG)

Result: Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated).

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.
Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

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

UN#: 1993

Class: COMBUSTIBLE LIQUID

Packing Group: Packing Group III

PIH: Not PIH

IATA

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

IATA Number: 1224

Hazard Class: 3

Packing Group: III

Section 15 - Regulatory Information

US Classification and Label Text**US Statements**

Combustible.

United States Regulatory Information

SARA 313 Listed: No

TSCA Inventory Item: Yes

Section 16 - Other Information

Warranty