



SIGMA-ALDRICH

Material Safety Data Sheet

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Version 1.20

Section 1 - Product and Company Information

Product Name 2-Isopropoxyethanol, 99%
Product Number 107891
Brand Aldrich Chemical

Company Sigma-Aldrich
Street Address 3050 Spruce Street
City, State, Zip, Country SAINT 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

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>	<u>EC no</u>	<u>Annex I Index Number</u>
2-ISOPROPOXYETHANOL	109-59-1	No	203-685-6	603-013-00-5

Formula C₅H₁₂O₂
Synonyms Dowanol eipat, Ethylene glycol isopropyl ether, Ethylene glycol, monoisopropyl ether, beta-Hydroxyethyl isopropyl ether, 2-Isopropoxyethanol (ACGIH), isopropyl cellosolve, Isopropylethylene glycol ether, Isopropyl glycol, Monoisopropyl ether of ethylene glycol

Section 3 - Hazards Identification

Emergency Overview
Combustible (USA) Flammable (EU). Harmful.
Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.
Target organ(s): Reproductive system.

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

Section 4 - First Aid Measures

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: 109.4 °F 43 °C
Autoignition Temp: N/A

Extinguishing Media

Suitable
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.
Specific Hazard(s)
Combustible liquid.

Exposure Hazard(s)

Material
Irritant. Harmful liquid.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area.

Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal.

Section 7 - Handling and Storage

Handling

User Exposure

Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

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.

Personal Protective Equipment

Eye

Chemical safety goggles.

General Hygiene Measures

Wash contaminated clothing before reuse. Wash thoroughly after handling.

Exposure Limits, RTECS

<u>Country</u>	<u>Source</u>	<u>Type</u>	<u>Value</u>
USA	ACGIH	TWA	25 PPM
New Zealand	OEL		

Remarks: Skin
Remarks: check ACGIH TLV

Section 9 - Physical/Chemical Properties

Appearance	Color Colorless	Form Clear liquid
Molecular Weight:	104.15 AMU	
pH	N/A	
BP/BP Range	142 - 144 °C	
MP/MP Range	N/A	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
SG/Density	0.904 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	109.4 °F	Method: closed cup
Flash Point °C	43 °C	Method: closed cup
Explosion Limits	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Refractive Index	1.41	
Solubility	N/A	

N/A = not available

Section 10 - Stability and Reactivity

Stability
Materials to Avoid
Strong 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 swallowed, inhaled, or absorbed through skin. Vapor or mist is irritating to the eyes, mucous membranes, and upper respiratory tract.

Target Organ(s) or System(s)
Female reproductive system. Male reproductive system.

Signs and Symptoms of Exposure
In laboratory studies with this material, birth defects, fetotoxicity, embryolethality, anemia, bone marrow damage, hemolysis, immunosuppression, and damage to the male reproductive tissues have been observed. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: KL5075000

Toxicity Data

Oral - Rat: 5660 UL/KG (LD50)
Inhalation - Rat: 3,100 mg/m3 (LC50)
Intraperitoneal - Rat: 800 MG/KG (LD50)
Oral - Mouse: 4900 mg/kg (LD50)
Inhalation - Mouse: 1,930 ppm (LC50)
Remarks: Behavioral: Analgesia.
Lungs, Thorax, or Respiration: Dyspnea.
Kidney, Ureter, Bladder: Hematuria.
Intraperitoneal - Mouse: 1860 MG/KG (LD50)
Skin - Rabbit: 1600 UL/KG (LD50)

Irritation Data

Skin - Rabbit: 20 mg 24H
Remarks: Moderate irritation effect
Eyes - Rabbit: 500 mg 24H
Remarks: Mild irritation effect

Section 12 - Ecological Information

No data available.

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: Alcohols, n.o.s
UN#: 1987
Class: 3
Packing Group: Packing Group III
Hazard Label: Flammable liquid
PIH: Not PIH

IATA

Proper Shipping Name: ALCOHOLS, N.O.S.

IATA UN Number: 1987

Hazard Class: 3

Packing Group: III

Section 15 - Regulatory Information

EU Directives Classification

Symbol of Danger: Xn

Indication of Danger

Harmful.

Risk Statements R: 20/21 36

Harmful by inhalation and in contact with skin, irritating to eyes.

Safety Statements S: 24/25

Avoid contact with skin and eyes.

US Classification and Label Text

Indication of Danger

Combustible (USA) Flammable (EU). Harmful.

Risk Statements

Harmful by inhalation, in contact with skin 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, gloves, and eye/face protection.

US Statements

Target organ(s): Reproductive system.

United States Regulatory Information

SARA Listed: No

Notes: This product is subject to SARA section 313 reporting requirements. This product is subject to SARA section 313 reporting requirements.

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

Section 16 - Other Information

Disclaimer

For R&D use only. Not for drug, household or other uses.

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. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. 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 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

