

Safety Data Sheet

Part Number 321759

Section 1. Substance Identity and Company Contact Information

Product Name	Dimethyl Methylphosphonate	Product Part Number(s)	321762 and 290460
Trade Name	Dimethyl Methylphosphate	Unit Size	< 2 mL
Company	OI Analytical, P.O. Box 9010, College Station, TX 77842-9010, Phone: (979) 690-1711, Fax: (979) 690-0440		

Emergency No. 1-800-424-9300 (Chemtrec). Use only in the event of chemical emergencies involving spills, leaks, fire, exposure, or accidents involving chemicals.

Section 2. Hazards Identification

Pictogram(s)



Signal Word	Danger	
Precautionary Statement(s)	Highly toxic by inhalation.	
Emergency Overview	Combustible liquid. Irritant	
Target Organ(s)	No data available	
Potential Health Effects	Eye:	Cause eye irritation.
	Skin:	May be harmful if absorbed through skin. Causes skin irritation.
	Ingestion:	May be harmful if swallowed.
	Inhalation:	May be fatal if inhaled. Causes respiratory tract irritation.
Chronic Effects/ 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.
	NTP:	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.
	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.
Teratology (Birth Defects) Information	No data available	
Reproductive Information	No data available	
NFPA Ratings	Health:	4
	Flammability:	2
	Reactivity:	0
	Special Notice Key:	No data available
HMIS Rating	Health:	4
	Flammability:	2
	Reactivity:	No data available
	Protective Equipment:	No data available

Section 3. Chemical Composition and Data on Components

Ingredient	CAS No.	Percent	Hazard Data	
			ACGIH TLV	OSHA PEL
Dimethyl Methylphosphonate	756-79-6	97	No data available	No data available

Section 4. First Aid Measures

General Advice	No data available
If Inhaled	Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.
In Case of Skin Contact	Immediately wash skin with soap and copious amounts of water. Consult a physician.
In Case of Eye Contact	Immediately flush eyes with copious amounts of water for at least 15 minutes. Consult a physician.
If Swallowed	Wash out mouth with water provided person is conscious. Call a physician.
Indication of Any Immediate Medical Attention and Special Treatment Needed	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Section 5. Fire-fighting Measures

General Information	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Combustible liquid. Emits toxic fumes under fire conditions.
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special Hazards Arising from the Substance or mixture	No data available
Advice for Firefighters	No data available
Flash Point	69 °C (156 °F)-closed up
Autoignition Temperature	No data available
Further Information	No data available

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures	Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions	No data available
Methods and Materials for Containment and Cleaning	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Reference to Other Sections	For disposal, see Section 13.

Section 7. Handling and Storage

Precautions for Safe Handling	Avoid exposure-obtain special instructions before use. Avoid inhalation of vapor or mist. Keep away from sources of ignition. No smoking. Take measures to prevent the build up of electrostatic charge.
Conditions for Safe Storage, Including any Incompatibilities	Keep container tightly closed in a dry and well-ventilated place. Containers which as opened must be carefully resealed and kept upright to prevent leakage.
Specific End Use(s)	No data available

Section 8. Exposure Controls and Personal Protection

Components with Workplace Control Parameters	No information available
Appropriate Engineering Controls	No data available
Eye/Face Protection	Safety glasses
Skin Protection	Handle with gloves
Body Protection	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory Protection	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. 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	Mechanical exhaust required.

Section 9. Physical and Chemical Properties

Appearance	Form: Clear liquid; Color: Colorless
Odor	Odorless
Odor Threshold	No data available
pH	No data available
Melting Point/Freezing Point	No data available
Initial Boiling Point and Boiling Range	181 °C (358 °F)
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/Lower Flammability or Explosive Limits	No data available
Vapor Pressure	< 0.1 hPa (< 0.1-mm Hg) at 20 °C (68 °F)
Vapor Density	1.145 g/mL at 25 °C (77 °F)
Relative Density	No data available
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
Other Safety Information	No data available

Section 10. Stability and Reactivity

Reactivity	No data available
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No data available
Incompatible Materials	Strong oxidizing agents and strong bases

Section 11. Toxicological Information

Routes of Exposure	<i>On the skin:</i>	Causes irritation.
	<i>On the eye:</i>	Vapor or mist is irritating to the eyes, mucous membranes, and upper respiratory tract
	<i>Inhalation:</i>	May be fatal
	<i>Ingestion:</i>	May be harmful
Respiratory or Skin Sensitization		No information available
Signs and Symptoms of Overexposure		To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Toxicity Data	<i>Oral Rat</i>	8,210 mg/kg

Section 12. Ecological Information

General Notes	No data available
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Section 13. Disposal Considerations

Product	This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated Packaging	Dispose of an unused product.

Section 14. Transport Information

DOT Shipping Name	Combustible liquid, N.O.S.
UN Proper Shipping Name	Dimethyl methyl phosphonate
DOT Hazard Class	CBL
Packing Group	No data available
UN Number	No data available
Hazardous Ingredients	This substance is considered to be non-hazardous
DOT Label	NA-number1993
DOT Placard	Packing Group: II
IMDG Shipping Name	No data available
UN Number	No data available
Class	No data available
Packing Group	No data available
IATA Shipping Name	No data available
Technical Shipping Name	No data available
IATA Hazard Class	No data available
UN Number	No data available
Hazardous Ingredients	No data available
IATA Label	No data available
IATA Placard	No data available

Section 15. Regulatory Information

OSHA Status	Combustible liquid, highly toxic by inhalation, irritant
TSCA Status	No data available
CERCLA Reportable Quantity	No data available
SARA Title III	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
RCRA Status	No data available
California Proposition 65	This product does not contain any chemicals known to State of California to cause cancer, birth or any other reproductive defects.
Chemical Weapons Convention	No data available
TSCA 12 (b)	No data available
SARA 311/312	Acute: Yes Chronic: No Fire: Yes Pressure: No Reactivity: No
Australian Hazchem Code	No data available
Poison Schedule	No data available
WHMIS	This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16. Other Information

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

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