

## Material Safety Data Sheet (MSDS)

<b>Section 1: Chemical Product and Company Identification</b>	
<b>Product Name</b>	Di(ethylene glycol) vinyl ether
<b>CAS Number</b>	929-37-3
<b>Chemical Formula</b>	C <sub>6</sub> H <sub>12</sub> O <sub>3</sub>
<b>Company Name</b>	CAMACHEM (Part of CAMAL Group) 3F Jinlong East Beijing Station Road Chaoyang District, Beijing, China
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<b>Company Website</b>	<a href="http://www.camachem.com">www.camachem.com</a>
<b>Section 2: Composition and Information on Ingredients</b>	
<b>Name</b>	Di(ethylene glycol) vinyl ether
<b>CAS #</b>	929-37-3
<b>% by Weight</b>	>98
<b>Section 3: Hazards Identification</b>	
<b>GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):</b>	Flammable liquids (Category 4), H227
<b>Hazards not otherwise classified (HNOC) or not covered by GHS:</b>	None.
<b>Section 4: First Aid Measures</b>	
<b>General advice:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>Eye Contact:</b>	Flush eyes with water as a precaution.
<b>Skin Contact:</b>	Wash off with soap and plenty of water. Consult a physician.
<b>Inhalation:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

<b>Ingestion:</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Section 5: Fire and Explosion Data</b>	
<b>Suitable extinguishing media:</b>	For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
<b>Special hazards arising from the substance or mixture:</b>	Carbon oxides.
<b>Advice for firefighters:</b>	Wear self-contained breathing apparatus for firefighting if necessary.
<b>Further information:</b>	Use water spray to cool unopened containers.
<b>Section 6: Accidental Release Measures</b>	
<b>Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment. Avoid breathing vapours, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<b>Methods and materials for containment and cleaning up:</b>	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.
<b>Section 7: Handling and Storage</b>	
<b>Precautions for safe handling:</b>	Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
<b>Conditions for safe storage, including any incompatibilities:</b>	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
<b>Section 8: Exposure Controls/Personal Protection</b>	

<b>Components with workplace control parameters:</b>	Contains no substances with occupational exposure limit values.
<b>Appropriate engineering controls:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Eye/face protection:</b>	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).
<b>Skin protection:</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's 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.
<b>Body Protection:</b>	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Respiratory protection:</b>	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).
<b>Control of environmental exposure:</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<b>Section 9: Physical and Chemical Properties</b>	
<b>Physical state and appearance:</b>	Form: liquid Colour: colourless
<b>Odour:</b>	No data available.
<b>Odour Threshold:</b>	No data available.
<b>PH:</b>	No data available.
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	196 °C (385 °F)
<b>Flash point:</b>	83 °C (181 °F)
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower flammability or explosive limits:</b>	No data available.
<b>Vapor Pressure:</b>	No data available.
<b>Vapor Density:</b>	No data available.
<b>Relative density:</b>	0.968 g/cm <sup>3</sup> at 25 °C (77 °F)
<b>Water solubility:</b>	No data available.

<b>Partition coefficient:</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.
<b>Section 10: Stability and Reactivity Data</b>	
<b>Reactivity:</b>	No data available.
<b>Stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	No data available.
<b>Conditions to avoid:</b>	Heat, flames and sparks.
<b>Incompatibility with various substances:</b>	Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	Other decomposition products - No data available.
<b>Section 11: Toxicological Information</b>	
<b>Acute toxicity:</b>	LD50 Oral - Rat - 4,930 mg/kg Inhalation: No data available Dermal: No data available
<b>Toxicity to Animals:</b>	No data available.
<b>Serious eye damage/eye irritation:</b>	No data available.
<b>Other Toxic Effects on Humans:</b>	No data available.
<b>Respiratory or skin sensitisation:</b>	No data available.
<b>Carcinogenicity:</b>	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.
<b>Reproductive toxicity:</b>	No data available.
<b>Specific target organ toxicity - single exposure:</b>	No data available.
<b>Specific target organ toxicity - repeated exposure:</b>	No data available.
<b>Aspiration hazard:</b>	RTECS: KM5495500
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
<b>Section 12: Ecological Information</b>	
<b>Toxicity:</b>	No data available.

<b>Persistence and degradability:</b>	No data available.
<b>Bioaccumulative potential:</b>	No data available.
<b>Mobility in soil:</b>	No data available.
<b>Results of PBT and vPvB assessment:</b>	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
<b>Other adverse effects:</b>	No data available.
<b>Section 13: Disposal Considerations</b>	
<b>Product:</b>	This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company
<b>Contaminated packaging:</b>	Dispose of as unused product.
<b>Section 14: Transport Information</b>	
<b>DOT (US):</b>	NA-Number: 1993 Class: NONE Packing group: III Proper shipping name: Combustible liquid, n.o.s. (Di(ethylene glycol) vinyl ether) Poison Inhalation Hazard: No
<b>IMDG:</b>	Not dangerous goods
<b>IATA:</b>	Not dangerous goods
<b>Section 15: Other Regulatory Information</b>	
<b>SARA 302 Components:</b>	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
<b>SARA 313 Components:</b>	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
<b>SARA 311/312 Hazards:</b>	Fire Hazard.
<b>Massachusetts Right To Know Components:</b>	No components are subject to the Massachusetts Right to Know Act.
<b>California Prop. 65 Components:</b>	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
<b>Section 16: Other Information</b>	
<b>References:</b>	None.
<b>Other Special Considerations:</b>	None.
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