

Material Safety Data Sheet (MSDS)

Section 1: Chemical Product and Company Identification	
Product Name	Ethyl vinyl ether
CAS Number	109-92-2
Chemical Formula	C ₄ H ₈ O
Company Name	CAMACHEM (Part of CAMAL Group) 3F Jinlong East Beijing Station Road Chaoyang District, Beijing, China
Contact	sales@camachem.com
Company Website	www.camachem.com
Section 2: Composition and Information on Ingredients	
Name	Ethyl vinyl ether
CAS #	109-92-2
% by Weight	>98
Section 3: Hazards Identification	
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):	Flammable liquids (Category 1), H224
Hazards not otherwise classified (HNOC) or not covered by GHS:	May form explosive peroxides.
Section 4: First Aid Measures	
General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Eye Contact:	Flush eyes with water as a precaution.
Skin Contact:	Wash off with soap and plenty of water. Consult a physician.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Section 5: Fire and Explosion Data	
Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture:	
Advice for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information:	Use water spray to cool unopened containers.
Section 6: Accidental Release Measures	
Personal precautions, protective equipment and emergency procedures:	Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up:	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.
Section 7: Handling and Storage	
Precautions for safe handling:	Avoid inhalation of vapour or mist. Use explosion-proof equipment. 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 are opened must be carefully resealed and kept upright to prevent leakage. Handle and open container with care. Air sensitive.
Section 8: Exposure Controls/Personal Protection	
Components with workplace control parameters:	Contains no substances with occupational exposure limit values. Hazardous components without workplace control parameters

Appropriate engineering controls:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Eye/face protection:	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection:	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.
Body Protection:	Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (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:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Section 9: Physical and Chemical Properties	
Physical state and appearance:	Form: clear, liquid Colour: colourless
Odour:	No data available.
Odour Threshold:	No data available.
PH:	No data available.
Melting point/freezing point:	-116 °C (-177 °F)
Initial boiling point and boiling range:	33 °C (91 °F)
Flash point:	-46 °C (-51 °F)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower flammability or explosive limits:	Upper explosion limit: 28 %(V) Lower explosion limit: 1.4 %(V)
Vapor Pressure:	747 hPa (560 mmHg) at 20 °C (68 °F)
Vapor Density:	2.89
Relative density:	0.753 g/mL at 25 °C (77 °F)
Water solubility:	No data available.

Partition coefficient:	No data available.
Auto-ignition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.
Section 10: Stability and Reactivity Data	
Reactivity:	No data available.
Stability:	Stable under recommended storage conditions. Contains the following stabiliser(s): N,N-Diethylaniline (0.1 %)
Possibility of hazardous reactions:	Vapours may form explosive mixture with air.
Conditions to avoid:	Heat, flames and sparks.
Incompatibility with various substances:	Oxidizing agents, Oxygen, Acids.
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available.
Section 11: Toxicological Information	
Acute toxicity:	LD50 Oral - Rat - 6,144.5 mg/kg LC50 Inhalation - Mouse - 15 h - 324,000 mg/m3 Remarks: Behavioral:General anesthetic. LD50 Dermal - Rat - > 20,000 mg/kg
Toxicity to Animals:	No data available.
Serious eye damage/eye irritation:	No data available.
Other Toxic Effects on Humans:	No data available.
Respiratory or skin sensitisation:	No data available.
Carcinogenicity:	ARC: 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 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.
Reproductive toxicity:	No data available.
Specific target organ toxicity - single exposure:	No data available.
Specific target organ toxicity - repeated exposure:	No data available.
Aspiration hazard:	RTECS: KO0710000
Liver injury may occur., inhalation or ingestion may produce an intense excited state, Unconsciousness, respiratory paralysis, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting.	

Section 12: Ecological Information

Toxicity:	No data available.
Persistence and degradability:	No data available.
Bioaccumulative potential:	No data available.
Mobility in soil:	No data available.
Results of PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects:	No data available.

Section 13: Disposal Considerations

Product:	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging:	Dispose of as unused product..

Section 14: Transport Information

DOT (US):	UN number: 1302 Class: 3 Packing group: I Proper shipping name: Vinyl ethyl ether, stabilized Reportable Quantity (RQ): Poison Inhalation Hazard: No
IMDG:	UN number: 1302 Class: 3 Packing group: I EMS-No: F-E, S-D Proper shipping name: VINYL ETHYL ETHER, STABILIZED
IATA:	UN number: 1302 Class: 3 Packing group: I Proper shipping name: Vinyl ethyl ether, stabilized

Section 15: Other Regulatory Information

SARA 302 Components:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components:	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.
SARA 311/312 Hazards:	Fire Hazard, Acute Health Hazard, Chronic Health Hazard.



Contact: sales@camachem.com

California Prop. 65 Components:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Section 16: Other Information	
References:	None.
Other Special Considerations:	None.
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The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we m be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.

**CAMACHEM (Part of CAMAL Group), 3F Jinlong East Beijing Station Road
Chaoyang District, Beijing, China**
www.camachem.com