



Section 1. Product and Company Identification

Product Name 2-Methoxyethyl Acrylate
CAS Number 3121-61-7

Parchem - fine & specialty chemicals

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EMERGENCY RESPONSE NUMBER
CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

GHS-US Classification

Flam. Liq. 4 - H227

Acute Tox. 4 (Oral) - H302

Acute Tox. 3 (Dermal) - H311

Acute Tox. 2 (Inhalation: gas) - H330

Eye Irrit. 2A - H319

Skin Sens. 1 - H317

Repr. 1B - H360

STOT RE 2 - H373

Aquatic Acute 2 - H401

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard statements (GHS-US)

H227 - Combustible liquid

H302 - Harmful if swallowed

H311 - Toxic in contact with skin

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H360 - May damage fertility or the unborn child



H373 - May cause damage to organs through prolonged or repeated exposure
H401 - Toxic to aquatic life

Precautionary statements (GHS-US)

- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 - Wash ... thoroughly after handling
- P270 - Do not eat, drink, or smoke when using this product
- P271 - Use only outdoors or in a well-ventilated area
- P272 - Contaminated work clothing should not be allowed out of the workplace
- P273 - Avoid release to the environment
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P284 - [In case of inadequate ventilation] wear respiratory protection
- P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P308+P313 - IF exposed or concerned: Get medical advice/attention
- P310 - Immediately call a POISON CENTER/doctor/...
- P312 - Call a POISON CENTER/doctor/.../if you feel unwell
- P314 - Get medical advice and attention if you feel unwell
- P320 - Specific treatment is urgent (see ... on this label)
- P321 - Specific treatment (see ... on this label)
- P330 - If swallowed, rinse mouth
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
- P337+P313 - If eye irritation persists: Get medical advice/attention
- P361 - Remove/Take off immediately all contaminated clothing
- P362+P364 - Take off contaminated clothing and wash it before reuse
- P363 - Wash contaminated clothing before reuse
- P370+P378 - In case of fire: Use ... for extinction
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed
- P403+P235 - Store in a well-ventilated place. Keep cool
- P405 - Store locked up
- P501 - Dispose of contents/container to ...

Other Hazards: No additional information available
Unknown Acute Toxicity (GHS US): No data available

Section 3. Composition / Information on Ingredients

Common Name	2-Methoxyethyl Acrylate
Synonym(s)	2-Methoxyethanol, Acrylate; 2-Methoxyethoxy Acrylate; 2-Propenoic Acid, 2-Methoxyethyl Ester; 2-Propenoic Acid, 2-Methoxyethyl Ester
Formula	C ₆ H ₁₀ O ₃
CAS Number	3121-61-7

COMPONENT	CAS NUMBER	CONCENTRATION
2-Methoxyethyl Acrylate	3121-61-7	99.5%

Section 4. First Aid Measures

Description of first-aid measures

General: If exposed or concerned: Get medical advice/attention.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately consult a doctor/medical service.

Skin contact: Wipe off as much as possible (using a clean, soft, absorbent material). Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist.

Ingestion: Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: No additional information available

Indication of any immediate medical attention and special treatment needed: No additional information available

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Dry chemical powder. Carbon dioxide. Foam. Sand.

Unsuitable extinguishing media: No unsuitable extinguishing media known.

Special hazards arising from the substance or mixture: No additional information available

Advice for firefighters

Protection during firefighting: Use a self-contained breathing apparatus and also a protective suit.

Other information: Cool down the containers exposed to heat with a water spray.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

General measures: Remove ignition sources. Wear self-contained breathing apparatus and protective suit (see item 8).

For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

For emergency responders: No additional information available

Environmental precautions: Prevent entry to sewers and public waters. Cover spill with non-combustible material, e.g.: dry sand/earth/vermiculite.

Methods and material for containment and cleaning up

For containment: Cover spill with inert material, e.g.: dry sand/earth/vermiculite.

Methods for cleaning up: Neutralize leftovers with an aqueous solution of caustic soda (sodium hydroxide). Wash down leftovers with plenty of water.

Reference to other sections: No additional information available

Section 7. Handling and Storage

Precautions for safe handling

Precautions for safe handling: Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from ignition sources/sparks. Keep away from naked flames/heat.

Hygiene measures: Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store tightly closed in a dry, cool and well-ventilated place. Keep away from ignition sources (including static discharges).

Storage temperature: < 40°C

Special rules on packaging: Corrosion-proof.

Packaging materials: Store in steel with plastic inner lining, polyethylene container with a resistant inner liner.

Section 8. Exposure Controls / Personal Protection

Exposure Controls

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

Personal protective equipment: Face shield. Gas mask. Gloves. Protective clothing. Protective goggles.

Hand protection: Consult glove manufacturer's product information on material suitability and material thickness.

Eye protection: tightly fitting safety goggles. Face shield.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Gas mask.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Liquid

Appearance: Clear, colorless liquid.

Color: Colorless.

Odor: Ester-like. Strong odor.

Odor threshold: No data available

pH: 4.9 (20°C)

Relative evaporation rate (Butyl Acetate = 1): No data available

Melting point: < -20°C

Freezing point: < -20°C

Boiling point: 155°C (1013hPa)

Flash point: 61.2°C

Self-ignition temperature: 246°C

Decomposition temperature: No data available

Flammability (solid, gas): No data available

Vapor pressure: 1600 Pa (59°C)

Relative vapor density (20°C): No data available

Relative density: 1.0131 (20°C)

Solubility - Water: 103 g/l (20°C)

Log Pow: 0.45

Log Kow: No data available

Viscosity, Kinematic: No data available

Viscosity, Dynamic: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Explosive limits: 1.6% vol. (Lower)

Other information: No additional information available

Section 10. Stability and Reactivity

Reactivity: No additional information available

Chemical stability: The product is stable at normal handling and storage conditions. May polymerize.

Possibility of hazardous reactions: No additional information available

Conditions to avoid: Direct sunlight. Sparks. Refer to Section 10 on Incompatible Materials. Keep



away from heat and direct sunlight. Keep away from naked flames/heat.

Incompatible materials: Peroxides. Oxidizing agents. Iron.

Hazardous decomposition products: No additional information available

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity: Harmful if swallowed. Toxic in contact with skin. Fatal if inhaled.

LD50 Oral - Rat: 404 mg/kg

LD50 Dermal - Rat: 250 mg/kg

LC50 Inhalation - Rat: 500 ppm

ATE (Oral): 404.000 mg/kg

ATE (Dermal): 250.000 mg/kg

Skin corrosion/irritation: Not classified

pH: 4.9 (20°C)

Serious eye damage/irritation: Causes serious eye irritation.

pH: 4.9 (20°C)

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: May damage fertility or the unborn child.

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Not classified

Section 12. Ecological Information

Toxicity

LC50 fishes 1: 1 - 10 mg/l (96hr, *Oryzias latipes*)

EC50 Daphnia 1: 6.7 mg/l (48hr)

EC50 other aquatic organisms 1: 1 - 10 mg/l (72hr Green algae)

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential: Log Pow: 0.45

Mobility in soil: 56% Fugacity model

Other adverse effects: No additional information available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

In accordance with ADR/RID/ADNR/IMDG/ICAO/IATA

UN number

UN-No.(DOT): 2810

DOT NA no.: UN2810

UN Proper Shipping Name

DOT Proper Shipping Name: Toxic, liquids, organic, n.o.s. (2-Methoxyethyl acrylate)

Hazard labels (DOT): 6.1 - Toxic substances

DOT Symbols: G - Identifies PSN requiring a technical name

Packing group (DOT): III - Minor Danger

DOT Special Provisions (49 CFR 172.102): IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2)

Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: t_r is the maximum mean bulk temperature during transport, and t_f is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx): 153

DOT Packaging Non Bulk (49 CFR 173.xxx): 203

DOT Packaging Bulk (49 CFR 173.xxx): 241

Additional Information

Other information: No supplementary information available.

State during transport (ADR-RID): Liquid.

Overland Transport

Packing group (ADR): III

Class (ADR): 6.1 - Toxic substances

Hazard identification number (Kemler No.): 60

Classification code (ADR): T1

Danger labels (ADR): 6.1 - Toxic substances

Orange plates: 60; 2810

Tunnel restriction code: E

Excepted quantities (ADR): E1

Transport by sea

DOT Vessel Stowage Location: A - The material may be stowed "on deck" or "under deck" on



a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other: 40 - Stow "clear of living quarters"

Subsidiary risks (IMDG): 6.1

EmS-No. (1): F-E

EmS-No. (2): S-D

Air Transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 60 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 220 L

Subsidiary risks (IATA): 6.1

Instruction "cargo" (ICAO): 310

Instruction "passenger" (ICAO): 309

Instruction "passenger" - Limited quantities (ICAO): Y309

Section 15. Regulatory Information

US Federal Regulations: No additional information available

International regulations

CANADA: No additional information available

EU-Regulations: No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) - H302

Acute Tox. 3 (Dermal) - H311

Acute Tox. 4 (Inhalation) - H332

Skin Irrit. 2 - H315

Eye Dam. 1 - H318

Aquatic Chronic 2 - H411

Classification according to Directive 67/548/EEC or 1999/45/EC

T; R24 Xn; R20/22 Xi; R36/37/38

National regulations: No additional information available

US State regulations: No additional information available

Section 16. Other Information

Disclaimer: 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.

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