



Part 1 Product and Company Identification

> Product Identification

Product name	Methyl methacrylate
Synonyms	/
CAS No.	80-62-6
EC No.	201-297-1
Molecular Formula	C ₅ H ₈ O ₂

> Product Recommended and Limited Use

Recommended Uses of the Product	Please consult manufacturer.
Limited Uses of the Product	Please consult manufacturer .

> Safety Data Sheet Provider Information

Supplier Name	Chongqing Yixiang Chemical Co., LTD
Supplier Address	No.9, Huabei Road, Yanjia Street Changshou District, ChongQing, China
Supplier Post Code	401221
Supplier Contact Number	+86-23-40767869
Supplier Fax	/
Supplier E-Mail	/

Emergency Phone Number	CONTACT CANUTEC 24hours 1-888-CAN-UTEC(226-8832) or (613)996-6666
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> Authorized Distributor / Sales Representative

Distributed By	Van Bros Trading Co. Ltd.
Distributor Address	1005-8477 Bridgeport Rd Richmond BC V6X 0S7 Canada
Distributor Email	Info@vanbroschemicals.com

Part 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the Tenth revised edition):

> **Emergency Overview**

No information available

> **GHS Hazard Class**

Flammable liquids

Category 2

Skin corrosion/irritation

Category 2

Skin sensitization

Category 1

Specific target organ toxicity – single exposure

Category 3 (may cause respiratory irritation)

Hazardous to the aquatic environment, short-term (Acute)

Category 3

> **GHS Label Elements**

Pictogram



Danger

Signal Word

> **Hazard Statements**

H225

Highly flammable liquid and vapour.

H315

Causes skin irritation.

H317

May cause allergic skin reaction.

H335

May cause respiratory irritation.

H402

Harmful to aquatic life.

> **Precautionary Statements**

Prevention

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233

Keep container tightly closed.

P240

Ground and bond container and receiving equipment.

P241

Use explosion-proof [electrical/ventilating/ lighting/ ...] equipment.

P242

Use non-sparking tools.

P243

Take action to prevent static discharges.

P280

Wear protective gloves/protective clothing/eye protection/face protection /hearing protection/ ...

P264

Wash hands [and...] thoroughly after handling.

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P271

Use only outdoors or in a well-ventilated area.

P273

Avoid release to the environment.

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Response**P370 + P378**

In case of fire: Use carbon dioxide/water/foam to extinguish.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse areas with water [or shower].

P362 + P364

Take off contaminated clothing and wash it before reuse.

P333 + P317

If skin irritation or rash occurs: Get medical help.

P304 + P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P319

Get medical help if you feel unwell.

Storage**P403+P235+P233**

Store in a well-ventilated place. Keep cool. Keep container tightly closed.

P405

Store locked up.

Disposal**P501**

Dispose of contents/containers in accordance with local/regional/national/international regulations.

> Other Hazards**Physical and Chemical Hazards**

No information available

Health Hazards

No information available

Environmental Hazards

No information available

Part 3 Composition/Information on Ingredients

Component	Content(mass fraction, %)	CAS No.	EC No.
Methyl methacrylate	≥99.9	80-62-6	201-297-1

Part 4 First-Aid Measures

> Description of First Aid Measures**General Advice**

Consult the doctor and show this safety data sheet (SDS) to the doctor at the scene.

Eye Contact

Remove eyelids immediately and rinse thoroughly with plenty of running water for at least 15 minutes. Call poison control center or get emergency medical help immediately. After the eyes are injured, contact lenses can only be removed by specially trained personnel.

Skin Contact

Take off the contaminated clothes immediately. Wash the contaminated area with plenty of soapy water and running water. If skin irritation persists, get medical help. Contaminated clothing should be placed in a double-layer, appropriately labeled, sealable waste disposal bag and washed before reuse.

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Ingestion	Rinse mouth with water immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give cardio-pulmonary resuscitation and consult a physician immediately.
Protection of First-aiders	Ensure that medical staff are aware of the product involved. Take precautions to protect themselves and prevent the spread of contamination.

> **Most Important Symptoms and Effects, Both Acute and Delayed**

No information available

> **Indication of Any Emergency Medical Treatment and Special Treatment**

Perform targeted treatment according to the symptoms. Symptoms may be delayed.

Part 5 Fire-Fighting Measures

> **Extinguishing Media**

Suitable Extinguishing Medium

Dry powder/carbon dioxide/sand/water/alcohol resistant foam

Unsuitable Extinguishing Medium

Avoid extinguishing fire with too strong water vapour, as it may spread the flames.

> **Specific Hazards Arising from the Substance or Mixture**

- 1 Vapour can form explosive mixtures with air.
- 2 Vapour is heavier than air and may travel a considerable distance to reach the ignition source and backfire.
- 3 Substances may undergo explosive polymerization when exposed to heat or fire. Containers may explode when heated.
- 4 When a fire occurs, it may cause the production of hazardous gases or vapours, such as carbon oxides (COx).

> **Advice for Firefighters**

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 In the event of fire, cool tanks with water spray.
- 3 Fight fire from a safe distance, with adequate cover.
- 4 Prevent fire extinguishing water from contaminating surface water or the groundwater system.

Part 6 Accidental Release Measures

> **Personal Precautions, Protective Equipment and Emergency Procedures**

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- 1 Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
 - 2 Use personal protective equipment. Avoid inhaling vapours, mist, gas or dust.
 - 3 Ensure adequate ventilation of the leakage area.
 - 4 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
- > **Environmental precautions**
- Contact the manufacturers, and accept the instructions of manufacturers. Report to the emergency department and inform them of the location and nature of the accident. The contaminated surface is scrubbed with soap or detergent, and the near dilution of the sewage is placed in the wastewater system. Avoid spillover diffusion and direct contact into soil, rivers, sewers and sewer lines.
- > **Storage, Elimination Methods and Disposal Materials Used for Leaking Chemicals**
- 1 Take all means to collect the leakage and avoid the diffusion of the leakage. In case of a small amount of leakage, dry sand or inert adsorbent can be used to absorb the leakage. In case of large amount of spillage, contain a spill by bunding.
 - 2 Attachments or collections shall be stored in suitable airtight containers and disposed of in accordance with relevant local laws and regulations.
 - 3 Wear protective clothing, gloves, and safety goggles to avoid contact with skin and eyes.

Part 7 Handling and Storage

- > **Precautions for Handling**
- 1 Wear appropriate personal protective equipment.
 - 2 Handling is performed in a well-ventilated place.
 - 3 Avoid contact with skin and eyes.
 - 4 Don't eat, drink or smoke during operation.
 - 5 Wash hands with soap and water after operation.
- > **Precautions for Storage**
- 1 Keep containers tightly closed.
 - 2 Store in a cool, dry, well-ventilated location.
 - 3 Store away from incompatible materials and foodstuff containers.

Part 8 Exposure Controls/Personal Protection

- > **Control Parameters**

Occupational Exposure Limit Values

Component	CAS No.	OELs (mg/m ³)			Basis
		MAC	PC-TWA	PC-STEL	
Methyl methacrylate	80-62-6	/	100	/	GBZ 2.1-2019 Occupational exposure limits for hazardous agents in the workplace Part 1. Chemical hazards

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Biological Limit Values

No information available

Monitoring Methods

- 1 EN 14042 Workplace air. Guidelines for procedures for assessing exposure to chemical or biological agents.
- 2 GBZ/T 160 Determination of toxic substances in workplace air (Series standard) and GBZ/T 300 Determination of toxic substances in workplace air (Series standard).

Engineering Controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Make sure there are eyewash and shower facilities near the workplace.
- 3 Set up emergency exit and necessary risk-elimination area.

> Personal protective equipment

Eye Protection Wear chemical safety goggles (approved by EN 166(EU) or NIOSH (US)).

Hand Protection Wear chemical protective gloves (e.g. butyl rubber gloves), passing the test according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.

Respiratory Protection Use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges if vapor concentrations exceed occupational exposure limits or when symptoms such as irritation occur.

Skin and Body Protection Wear adhesive clothing, anti-penetration clothing, fire/flame-resistant retardant clothing and antistatic boots.

Part 9 Physical and Chemical Properties

Appearance: Colourless transparent liquid

Odour Thresholds: No information available

Melting Point/Freezing Point (°C): -48

Flash Point (°C) (Closed Cup): 10

Flammability: No information available

Vapor Pressure: 3.9kPa (at 20°C)

Relative Density (Water=1): 0.94

n-Octanol/Water Partition Coefficient:
log Kow=1.38

Decomposition Temperature (°C):
No information available

Odour: Pungent

pH: No information available

Initial Boiling Point and Boiling Range (°C):
100.36

Evaporation Rate: No information available

Upper/Lower Limit of Explosion [(V/V)]:
No information available

Relative Vapour Density (Air=1): 3.5

Solubility: Slightly soluble in water (15.3g/L).
Soluble in ether, ethanol, acetone and chloroform.

Auto-ignition Temperature (°C): 768

Kinematic Viscosity (mm²/s):
No information available

Part 10 Stability and Reactivity

Reactivity	May polymerize if subjected to heat, polymerization catalysts, strong oxidizers, or ultraviolet light.
Chemical Stability	Stable under proper operation and storage conditions.
Possibility of Hazardous Reactions	No information available.
Conditions to Avoid	Incompatible materials, high temperature, ignition source, heat source. Extreme temperature and sun exposure.
Incompatible Materials	Strong oxidizers.
Hazardous Decomposition Products	Carbon oxide (COx).

Part 11 Toxicological Information

> Acute Toxicity

Component	CAS No.	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Methyl methacrylate	80-62-6	7872 mg/kg (rat)	> 5000 mg/kg (rabbit)	78 mg/L (rat)

> Skin Corrosion/Irritation

Causes skin irritation

> Severe Eye Damage/Irritation

No information available

> Skin Sensitization

May cause an allergic skin reaction

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

Component	CAS No.	IARC	NTP
Methyl methacrylate	80-62-6	Category 3	/

> Reproductive Toxicity

No information available

> Additional Harm of Reproductive Toxicity

No information available

> Specific Target Organ Toxicity – Single Exposure

May cause respiratory irritation.

> Specific Target Organ Toxicity – Repeated Exposure

No information available

> Aspiration Hazard

No information available

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Part 12 Ecological Informa

> Acute Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae/aquatic plants
Methyl methacrylate	80-62-6	LC50: 79 mg/L (96h)	EC50: 69 mg/L (48h)	ErC50: 110 mg/L (72h)

> Chronic Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae/aquatic plants
Methyl methacrylate	80-62-6	NOEC: 9.4 mg/L (35d)	NOEC: 37 mg/L (21d)	/

> Others

Persistence and Degradability No information available

Bioaccumulation No information available

Mobility in Soil No information available

Results of PBT and vPvB Assessment

Does not meet the criteria for PBT and vPvB according to regulation (EC) No. 1907/2006, annex XIII

Part 13 Disposal Considerations

Waste Chemicals

Before disposal, relevant national and local laws and regulations should be referred to.

Contaminated Packaging

Containers may still present chemical hazard when empty. Do your personal protection. Return to supplier for recycling if possible.

Dispose Recommendations

Dispose of waste as follows: Consult the manufacturer about the method of recycling. Discard precautions: Operators should pay attention to their own safety protection and wear appropriate protective equipment. Never let water from washing equipment go down the drain. Refer to the relevant national and local laws and regulations before disposal.

Part 14 Transport Information

Transporting Label



Marine Pollutant

No

UN Number

1247

UN Proper Shipping Name

METHYL METHACRYLATE MONOMER, STABILIZED
(Methyl methacrylate)

Transport Hazard Class

3

Transport Subsidiary Hazard Class

/

Packaging Group

II

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Part 15 Regulatory Information

> International Chemical Inventory

Component	EINECS	ENCS	KECL	TSCA	NZIoC	PICCS	AIIC	DSL
Methyl methacrylate	√	√	√	√	√	√	√	√

[EINECS] European Inventory of Existing Commercial Chemical Substances.

[ENCS] Japan Existing and New Chemical Substances Inventory.

[KECL] Korean Existing Chemicals List.

[TSCA] United States Toxic Substances Control Act Inventory.

[NZIoC] New Zealand Inventory of Chemicals.

[PICCS] Philippine Inventory of Chemicals and Chemical Substances.

[AIIC] Australian Inventory of Industrial Chemicals.

[DSL] Canada Domestic Substances List.

> Chemical Management Directory of China

Component	A	B	C	D	E	F	G	H
Methyl methacrylate	√	√	X	X	X	X	X	√

[A] Inventory of Existing Chemical Substances in China (IECSC)

[B] Catalogue of Hazardous Chemicals in China (2015)

[C] List of Toxic Chemicals Restricted to be Imported/Exported in China

[D] Inventory of Chemicals Prohibited from Import/Export in China

[E] Catalog of Precursor Chemicals in China

[F] List of Hazardous Chemicals for Priority Management in China

[G] List of Controlled Narcotics and Psychotropic Drugs for Non-medical Use in China

[H] Chemical Substance Inventory in Taiwan, China (TCSI)

“√” Indicates that the substance included in the regulations

“x” That no date or included in the regulations

Part 16 Other Information

The format of this safety specification conforms to GHS (the Tenth revised edition) requires that the data come from international authoritative database and data submitted by enterprises, and other information is based on the present knowledge. This document is for users' reference only due to the diversity of information sources and the limitations of the center's knowledge. Users of safety technical specifications should make a judgment on the rationality of relevant information according to the purpose of use. We shall not be liable for any damage caused by the operation, storage, use or disposal of the product.

End of the report

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