

Safety data sheet for chemical products, MSDS

Product name: BW A7112

According to UN GHS (the 9th revise edition)

The revision date: 2026/4/15

Section 1 - Chemical and corporate identity

Product's information

Chemical name: Isobornyl methacrylate

CAS No.: 7534-94-3

Supplier's information

Supplier: Guangzhou BAWO New Material Science Co., Ltd.

Tel: 86-020-31074363

Fax: 86-020-31074309

Emergency Contact Number: 86-020-31074363

Section 2 - Hazard Identification

GHS of the substance or mixture

Chronic aquatic hazard, long-term(Chronic) - Category 3

GHS label elements, hazard statements and precautionary statement

Hazard pictogram: No symbol

Signal word: No signal word

Hazard statements:

H412 Harmful to aquatic life with long lasting effects

Precautionary statements:

Prevention

P273 Avoid release to the environment.

Response:

Not applicable.

Storage:

Not applicable.

Disposal:

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.



Other Hazards:

No relevant information available

Section 3 - Composition/Composition Information

Chemical characterization: substance.

Common name and synonyms	Component	Concentration or concentration range [% quality score]	CAS No.	EC No.
Isobornyl methacrylate	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	$\geq 98\%$	7534-94-3	231-403-1

Section 4 - First-aid Measures

Recommended procedures:

General notes: Take off all contaminated clothing immediately. Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours.

Skin contact: Take off contaminated clothing immediately. Wash off with soap and plenty of water. If skin irritation develops or persists, seek medical advice/attention.

Eye contact: Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

Inhalation: Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Ingestion: If swallowed, do not induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Indication of immediate medical attention and special treatment needed, if necessary:

1.Treatment symptomatically; 2.If respiratory symptoms persist, seek medical attention.

Section 5 - Fire-fighting Measures

Suitable extinguishing agent: Carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable extinguishing media: High volume water jet.

Fire precautions and protective measures:

The danger of fire could meet:



May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.

For the protection of firefighters:

1. Normal measures for preventive fire protection. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. In case of fire cool endangered containers with water. When heated above the flash point and/or during spraying (atomizing), ignitable mixtures may form in air. Vapours are heavier than air and may spread along floors.
2. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Wear self-contained breathing apparatus.

Section 6 - Leakage Emergency Treatment

Personal protective measures, protective equipment and emergency procedures:

Handle in accordance with good industrial hygiene and safety practice. Assure sufficient ventilation. Wear protective gloves/protective clothing/eye protection/face protection. Keep away from sources of ignition - No smoking. Use breathing apparatus if exposed to vapors/dust/mist/aerosol. Do not eat, drink or smoke when using this product. Wash hands thoroughly with soap and water after handling. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc

Environmental Attentions:

Prevent further leakage or spillage if safe to do so. Do not allow to sink into ground water, sewers or into surface water. Contain spilled product and prevent any contamination of soil, the sewer system or water bodies. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and appliances for cleaning up:

Larger quantities: Remove mechanically (by pumping). Use explosion-proof equipment. Soak up small amounts with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dispose of contaminated material in accordance with regulations.

Section 7 - Safety Operating Precautions and Storage

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for safe storage:



Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

Section 8 - Contact Control/Personal Protection

Occupational exposure limit values: No occupational exposure limits noted for the ingredient(s).

Biological limit values: No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Set up emergency exits and the risk elimination area. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Individual protection measures:

Eye protection: Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Hand protection: Protective gloves(such as butyl rubber), approved by EN374(EU).

Respiratory protection: If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

Skin and Body Protection: Wear fire/flamm resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Section 9 - The characteristics of physical and chemical

Appearance: Colourless liquid.

Odor: No relevant information available.

Melting point/Freezing point: No exact melting point was detected but a glass transition temperature at -94°C.

Initial boiling point and boiling range: 258 °C at 1002 hPa

Flammability(solid,gas): Not applicable

Upper/lower explosive limits: Non explosive

Flash point: 133.2°C(closed cup)

Auto-ignition temperature: Not applicable

Decomposition temperature: Not applicable

pH: No relevant information available



Viscosity:	Kinematic viscosity at 20° C : 8.39 mm ² /s Kinematic viscosity at 40° C : 4.61 mm ² /s
Water solubility:	5.44 mg/L
n-octanol/water partition coefficient:	Log Pow=5.09
Vapor pressure:	0.075 hPa at 20°C (0.12 hPa at 25°C)
Relative density:	0.983g/cm ³ at 20°C

Section 10 - Stability and Reactivity

Reactivity: Not reactive under recommended handling and storage conditions.

Stability: Stable under recommended handling and storage conditions.

Possibility of hazardous reaction: Hazardous reactions are not anticipated under recommended conditions of handling and storage. Stable under recommended handling and storage conditions.

Conditions to avoid: Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials. Avoid storage >38°C (100°F) and exposure to light/direct sunlight and heat.

Prohibited content: Peroxides, amines, sulfur compounds, heavy metal ions, alkalis, reducing agents and oxidizing agents. Free radical initiators.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 - Toxicological information:

Acute toxicity: based on available data, the classification criteria are not met. Isobornyl methacrylate is of low toxicity by oral route (LD50 rat $\geq$ 2000 mg/kg). Isobornyl methacrylate is of non toxicity by dermal route (LD50 rat > 3000 mg/kg). No fully reliable data are available for the inhalation routes. Due to the low vapour pressure of isobornyl methacrylate, inhalation is not considered as a relevant pathway of exposure.

Skin irritation or corrosion: based on available data, the classification criteria are not met.

Eye irritation or corrosion: based on available data, the classification criteria are not met.

Respiratory or skin irritation: based on available data, the classification criteria are not met.

Germ cell mutagenicity: based on available data, the classification criteria are not met.

Carcinogenicity: IARC: based on available data, the classification criteria are not met.

Reproductive toxicity: based on available data, the classification criteria are not met.

Inhalation hazards: based on available data, the classification criteria are not met.

Section 12 - Ecological information

LC50 (96h, Fish): 1.79 mg/L



EC50 (48h, Algae/aquatic plants): 2.57 mg/L

Chronic toxicity (long-term):

NOEC (Fish): EC10 or NOEC for freshwater algae: 0.254 mg/L

Persistence and degradability: The substance is readily biodegradable. 70% degradation in water, measured by CO₂ evolution, after 28 days.

Bioaccumulative potential: Low

Based on the log Pow value of 5.09 only a bioaccumulation potential of Isobornyl methacrylate can be assumed. But due to an expected rapid metabolism of Isobornyl methacrylate in the environment based on in vivo studies in rats and a non bioaccumulating potential of the metabolites Isoborneol and Methacrylic acid, Isobornyl methacrylate is not expected to bioaccumulate in organisms.

Mobility in soil: Organic Carbon Normalized Adsorption Coefficient(Log Koc) :5128.6

Results of PBT and vPvB assessment: This product does not contain any substances that are assessed to be a PBT/vPvB.

Endocrine disrupting properties: based on available data, the classification criteria are not met.

Other adverse effects: Not available.

Section 13 - Disposal considerations

Disposal method:

1. Waste is hazardous. It must be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility. Strictly controlled conditions during disposal or treatment to air, wastewater and waste. Do not add wastewater to a biological wastewater treatment plant Bring wastewater containing AOX for professional disposal. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority
2. Contaminated packaging should ideally be emptied; it can then be recycled after having been decontaminated. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling.

Section 14 - Transportation information

	Highway transport (ADR/RID)	Maritime transport (IMDG)	Air transport (ICAO/IATA)
UN number	Not dangerous goods	Not dangerous goods	Not dangerous goods
United nations	Not dangerous goods	Not dangerous goods	Not dangerous goods



transport name			
United nations classification of hazards	Not dangerous goods	Not dangerous goods	Not dangerous goods
Categories of packing	Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport in bulk according to IMO instruments	Not regulated	Not regulated	Not regulated
Environmental hazards	Not dangerous goods	Not dangerous goods	Not dangerous goods
Special precautions for user	No relevant information available		

Instruction:

1. The transport vehicles should be equipped with the corresponding number of fire fighting equipment and emergency leakage equipment.
2. It is forbidden to use mechanical equipment and tools that are easy to spark.
3. It is forbidden to mix with oxidizer, acid, strong alkali and edible chemicals.
4. The packing should be complete during shipment, and the loading should be safe.
5. Product should prevent exposure to the sun, rain, and high temperature during transportation. The best time to transport is the morning and evening.
6. During the stopover, it should stay away from the fire, heat source and high temperature area.

Section 15 - Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

European Inventory of Existing Commercial Chemical Substances (EINECS) Listed

United States Toxic Substances Control Act Inventory (TSCA) Listed

List of Hazardous Chemicals in China Not listed

Existing and New Chemical Substances Inventory in Japan (ENCS) Listed

Inventory of Existing Chemical Substances in China (IECSC) Listed



Canadian Domestic/Non-domestic Substances List (DSL/NDSL) Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS) Listed

Korean Existing Chemicals List (KECL) Listed

New Zealand Inventory of Chemicals (NZIoC) Listed

Australian Inventory of Industrial Chemicals (AIIC) Listed

Section 16 - Other information

Write and edit information:

The safety technical specifications have been revised according to the requirements of UN GHS. (9th revision)

The revision date: 2026/4/15

Important disclaimer:

The data of the company is currently known data, according to the product under normal use, list must pay attention to matters, suggest the user to enable before, should read this data, help to the safe use and correct waste management. Please contact business technical staff if you have any doubts. But this data does not ensure that extended to processed products, whether have you made with materials processing, the user should be aimed at its product testing or certification to fully comply with relevant laws and regulations and requirements of the client, especially special purposes, such as the application of medicine, in case of any dispute and should not belong to the company's liability.

Data maker: Guangzhou BAWO New Material Science Co.,Ltd

