

Safety Data Sheet: Allyl Methacrylate (AMA)

1. Identification

Product	Allyl Methacrylate (AMA); CAS 96-05-9; EC 202-473-0
Use	Professional industrial ingredient and polymer formulation development.
Company	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for Allyl Methacrylate (AMA). The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation.

2. Hazards Identification

Classification	Flammable liquid Category 3; oral toxicity Category 4; dermal toxicity Category 3; inhalation toxicity Category 2; repeated-exposure organ toxicity Category 2; acute aquatic hazard Category 1; chronic aquatic hazard Category 3.
Signal word / symbols	Danger; GHS02, GHS06, GHS08, GHS09
Hazard statements	H226: flammable liquid and vapor. H302: harmful if swallowed. H311: toxic on skin contact. H330: fatal if inhaled. H373: may damage organs after repeated exposure. H400/H412: hazardous to aquatic life.
Prevention	Use adequate ventilation; avoid inhaling mist. Prevent skin and eye contact. Wear suitable chemical-resistant gloves and eye protection. Wash after handling; keep food and drink out of the work area.
Response	After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.



3. Composition / Information on Ingredients

Reference ingredient	Allyl methacrylate, CAS 96-05-9. Supply purity ≥99.5%, inhibitor 20±5 ppm. Inhibitor identity and remaining composition are not assigned from another supplier.
Supply grade	Purity ≥99.5%
Applicability	The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document.

4. First-Aid Measures

General	Significant inhalation, skin exposure or ingestion requires urgent medical attention. Protect rescuers from vapor and contaminated clothing.
Inhalation	Move to fresh air without entering an unsafe atmosphere. Obtain immediate emergency medical care. Trained responders should use an appropriate barrier or medical device for assisted breathing.
Skin	Remove contaminated clothing while washing thoroughly with water. Obtain urgent medical treatment after significant exposure.
Eyes	Rinse gently with plenty of water for at least 15 minutes, remove lenses when easy and obtain medical advice.
Ingestion	Rinse the mouth, do not induce vomiting and obtain immediate medical assistance. Give nothing by mouth to an unconscious person.

5. Fire-Fighting Measures

Extinguishing media	Use water spray, foam, dry chemical or carbon dioxide suited to the surrounding fire.
Hazards	Fire releases carbon oxides; uncontrolled polymerization can create heat and pressure.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personnel	Isolate the spill and provide ventilation. Use chemical-resistant gloves and eye protection; avoid contact and mist exposure.
Environment	Contain the release and protect drains and waterways. Report significant environmental contamination to the responsible authority.
Cleanup	Stop the leak if safe. Absorb liquid with a compatible inert material and collect in closed labelled containers. Do not wash into drains.

7. Handling and Storage

Handling	Use closed grounded transfer with effective vapor capture and restricted access. Prevent inhalation and skin absorption; wear compatible chemical gloves, goggles, face protection and protective clothing. Provide assessed respiratory controls and emergency equipment.
Storage	Store in a cool, temperature-controlled flammable-liquid area in the original inhibited condition. Protect from ignition, sunlight and heat; keep separated from initiators and incompatible chemicals.
Incompatibilities	Acids, bases, peroxides, reducing agents and polymerization initiators.

8. Exposure Controls / Personal Protection

Exposure limits	reference ACGIH TWA: 1 ppm, with skin notation. Apply current local limits and controlled vapor capture.
Engineering controls	Use local extraction where mist can be generated. Maintain accessible eyewash and emergency washing facilities.
Personal protection	Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks.
Respiratory protection	Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure.
Hygiene	Wash after handling, remove contaminated clothing promptly and do not eat, drink or smoke in the work area.

9. Physical and Chemical Properties

Appearance	Clear colorless liquid
Formula / molecular weight	C7H10O2 / 126.15 g/mol
Appearance	Clear liquid
Flash point, reference	37°C
Boiling point, reference	144°C
Other properties	Additional physicochemical properties beyond the stated values are not established for the supply grade. No unstated values are inferred.

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	Acids, bases, peroxides, reducing agents and polymerization initiators.
Decomposition	Fire releases carbon oxides; uncontrolled polymerization can create heat and pressure.

11. Toxicological Information

Exposure effects	Vapor inhalation can be fatal; skin absorption and repeated exposure require stringent controls.
Reference classification	Flammable liquid Category 3; oral toxicity Category 4; dermal toxicity Category 3; inhalation toxicity Category 2; repeated-exposure organ toxicity Category 2; acute aquatic hazard Category 1; chronic aquatic hazard Category 3.
Toxicological data	The reference does not provide complete numerical acute or chronic toxicity data for the supplied grade. No absence of effects is inferred.

12. Ecological Information

Environmental effects	Prevent discharge to soil, drains and receiving water. Retain cleanup waste; the reference does not establish complete environmental fate data for the supplied grade.
Controls	Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.
Assessment	No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.

13. Disposal Considerations

Product	Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements.
Packaging	Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.

14. Transport Information

Classification	Class 6.1 — Toxic; subsidiary Class 3
UN number	UN 2929
Shipping name	Toxic liquid, flammable, organic, n.o.s. (allyl methacrylate)
Class / packing group	ADR, IMDG and IATA: Class 6.1 with subsidiary Class 3, UN 2929, packing group II in the full current reference.
Transport precautions	Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment.

15. Regulatory Information

Identity	Allyl Methacrylate (AMA); CAS 96-05-9; EC 202-473-0
HS reference	291614; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish finished-product authorization.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	H226: flammable liquid and vapor. H302: harmful if swallowed. H311: toxic on skin contact. H330: fatal if inhaled. H373: may damage organs after repeated exposure. H400/H412: hazardous to aquatic life.
Limitations	Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.
Revision	2026.2; prepared 2026-10-06. Customer-document branding and title corrected; technical safety data retained.
Document scope	Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate.

Revision: 2026.2 | Revision date: 2026-10-06