

SAFETY DATA SHEET

METHYL METHACRYLATE (MMA)

CAS No.: 80-62-6

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Methyl Methacrylate (MMA)
CAS Number	80-62-6
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Danger
HAZARD CLASSIFICATION • Flammable Liquid (Category 2) • Skin Irritation (Category 2) • Skin Sensitisation (Category 1) • STOT Single Exposure (Category 3 - respiratory irritation)	
HAZARD STATEMENTS • H225 - Highly flammable liquid and vapour • H315 - Causes skin irritation • H317 - May cause an allergic skin reaction • H335 - May cause respiratory irritation	
PRECAUTIONARY STATEMENTS • P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking • P233 - Keep container tightly closed • P261 - Avoid breathing vapours • P272 - Contaminated work clothing should not be allowed out of the workplace • P280 - Wear protective gloves/eye protection/face protection • P302+P352 - If on skin: wash with plenty of water • P304+P340 - If inhaled: remove to fresh air and keep at rest • P333+P317 - If skin irritation or a rash occurs: get medical advice • P403+P233 - Store in a well-ventilated place; keep container tightly closed	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Methyl Methacrylate (MMA)
CAS Number	80-62-6
Physical State	Liquid
Appearance / Odour	Colorless liquid with a characteristic sharp, acrid, fruity odor detectable at very low concentrations.

4. FIRST-AID MEASURES

Eye Contact	Rinse immediately with plenty of water for at least 15 minutes, removing contact lenses if present, and seek medical attention if irritation persists.
Skin Contact	Remove contaminated clothing and wash thoroughly with soap and water; seek medical advice if irritation or a rash develops, as the material is a skin sensitizer.
Inhalation	Remove to fresh air, keep at rest, and seek medical attention if respiratory irritation or discomfort persists.
Ingestion	Do not induce vomiting; rinse mouth and seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, dry chemical, or carbon dioxide; use water spray to cool fire-exposed containers.
Unsuitable Extinguishing Media	Avoid a high-pressure straight water jet, which may spread the fire.
Special Hazards	Highly flammable, low-flash-point liquid; vapour is heavier than air; contains a polymerization inhibitor (commonly MEHQ/hydroquinone) requiring adequate oxygen headspace - heating, contamination, or inhibitor/oxygen depletion can cause hazardous exothermic runaway polymerization capable of rupturing sealed containers; combustion produces CO, CO ₂ , and irritant fumes.

6. ACCIDENTAL RELEASE MEASURES

Measures	Evacuate the area, eliminate ignition sources, ventilate, contain the spill with inert absorbent, prevent entry into drains or waterways, and monitor for a polymerization hazard in large or confined spills.
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7. HANDLING AND STORAGE

Handling Precautions	Keep cool and away from heat, sparks, open flames, and direct sunlight, maintain adequate inhibitor/air headspace per supplier guidance, use explosion-proof ventilation and equipment, avoid skin/eye contact and vapour inhalation, and ground/bond containers during transfer.
Storage Conditions	Store below the recommended maximum temperature (cool, shaded, typically under 30C), well ventilated, segregated from oxidizers, acids, bases, amines, and polymerization initiators/peroxides, maintaining inhibitor and oxygen headspace.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	ACGIH TLV is 20 ppm TWA; OSHA/NIOSH reference values are around 100 ppm TWA; wear chemical splash goggles/face shield, nitrile or butyl rubber gloves, protective clothing, and a NIOSH-approved organic vapour respirator if ventilation is inadequate.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Colorless liquid with a characteristic sharp, acrid, fruity odor detectable at very low concentrations.
Boiling Point	100-101
Melting Point	-48
Flash Point	10 (closed cup)
Density / Specific Gravity	0.936-0.944 g/cm3 at 20C
Water Solubility	Slightly soluble, approximately 1.5-1.6 g/100 mL at 20C
pH Value	Not applicable

10. STABILITY AND REACTIVITY

Stability	Stable when adequately inhibited and stored per specification; can polymerize violently (exothermic) if heated, contaminated, or if inhibitor/oxygen is depleted.
Incompatible Materials	Strong oxidizers, strong acids/bases, peroxides and other polymerization initiators, amines, and reducing agents.
Hazardous Decomposition	Carbon monoxide and carbon dioxide on combustion; hazardous heat/gas evolution if the material polymerizes uncontrolled.

11. TOXICOLOGICAL INFORMATION

Summary	Low acute oral toxicity (rat LD50 approximately 7,000-8,000 mg/kg); irritating to the skin, eyes, and upper respiratory tract; a recognized skin and respiratory sensitizer, with occupational asthma reported in sensitized individuals; chronic high-concentration inhalation animal studies show nasal/olfactory irritant effects; not classified as a carcinogen, mutagen, or reproductive toxicant under EU harmonized classification.
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12. ECOLOGICAL INFORMATION

Summary	Low-to-moderate toxicity to aquatic organisms; expected to biodegrade under aerobic conditions and volatilize readily, with low bioaccumulation potential.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of as flammable/hazardous chemical waste through a licensed waste contractor; do not allow uninhibited material to accumulate and do not discharge to sewers or waterways.
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14. TRANSPORT INFORMATION

UN Number	UN1247 (Methyl methacrylate monomer, stabilized)
Transport Hazard Class	3
Packing Group	II

15. REGULATORY INFORMATION

Notes	Listed on the TSCA (US) and REACH (EU) inventories with an EU CLP harmonized classification under Annex VI (Index No. 607-035-00-6); widely used to produce acrylic polymers/resins, coatings, and dental/medical products; requires an adequately inhibited/stabilized grade for storage and transport.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

(This document is computer generated and therefore does not require any signature.)

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