

SAFETY DATA SHEET

VINYL ACETATE MONOMER (VAM)

CAS No.: 108-05-4

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	Vinyl Acetate Monomer (VAM)
CAS Number	108-05-4
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 • Serious eye irritation - Category 2A • Skin sensitization - Category 1 • Specific target organ toxicity, single exposure - Category 3 (respiratory irritation) • Carcinogenicity - Category 2	
HAZARD STATEMENTS • H225 - Highly flammable liquid and vapour • H315 - Causes skin irritation • H317 - May cause an allergic skin reaction • H319 - Causes serious eye irritation • H335 - May cause respiratory irritation • H351 - Suspected of causing cancer	
PRECAUTIONARY STATEMENTS • P201 - Obtain special instructions before use • P210 - Keep away from heat, sparks, open flames and hot surfaces; no smoking • P233 - Keep container tightly closed • P240 - Ground/bond container and receiving equipment • P261 - Avoid breathing vapours • P264 - Wash exposed skin thoroughly after handling • P271 - Use only outdoors or in a well-ventilated area • P280 - Wear protective gloves/eye protection/face protection • P303+P361+P353 - IF ON SKIN: remove contaminated clothing immediately and rinse skin with water • P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing • P403+P235 - Store in a well-ventilated place and keep cool	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Vinyl Acetate Monomer (VAM)
CAS Number	108-05-4
Physical State	Liquid
Appearance / Odour	Colorless liquid with a sharp, sweetish, fruity odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing and seek medical attention if irritation persists.
Skin Contact	Remove contaminated clothing and wash skin with plenty of soap and water; seek medical attention if irritation or a rash persists.
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing; seek medical attention if respiratory irritation persists.
Ingestion	Rinse mouth; do NOT induce vomiting; give water to drink if conscious; seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, carbon dioxide, alcohol-resistant foam; water spray to cool exposed containers.
Unsuitable Extinguishing Media	Avoid a straight/high-pressure water stream, which can spread the fire.
Special Hazards	Highly flammable liquid producing vapor that readily forms explosive mixtures with air; uninhibited or heat-exposed material can undergo hazardous exothermic self-polymerization, especially if inhibitor is depleted or headspace oxygen is lost, potentially causing container rupture; combustion produces carbon monoxide, carbon dioxide and acetic acid fumes.

6. ACCIDENTAL RELEASE MEASURES

Measures	Eliminate all ignition sources, ventilate the area, contain the spill with inert absorbent, avoid contact and inhalation, and collect residues in vented (not sealed) containers due to polymerization risk.
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7. HANDLING AND STORAGE

Handling Precautions	Use only with adequate ventilation or local exhaust, keep away from heat/sparks/open flame and oxidizers, use grounded/bonded equipment, avoid skin/eye contact and inhalation, and ensure the product remains properly inhibited with adequate oxygen headspace to prevent hazardous polymerization.
Storage Conditions	Store in a cool, well-ventilated, flammables-rated area away from direct sunlight, heat and oxidizers; monitor inhibitor content and headspace oxygen per supplier guidance; avoid prolonged storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	OSHA PEL / ACGIH TLV ~10 ppm TWA (15 ppm STEL); use chemical-resistant gloves (e.g., Viton, nitrile), chemical splash goggles, and a NIOSH-approved organic vapor respirator with explosion-proof local exhaust ventilation where vapor exceeds exposure limits.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Colorless liquid with a sharp, sweetish, fruity odor.
Boiling Point	~72-73 C
Melting Point	~-93 C
Flash Point	~-8 C (closed cup)
Density / Specific Gravity	~0.93 g/cm3 at 20 C
Water Solubility	~20-25 g/L at 20 C (moderately soluble; also slowly hydrolyzes in water)
pH Value	Not applicable (non-aqueous organic liquid)

10. STABILITY AND REACTIVITY

Stability	Stable when properly inhibited and stored per specification; exposure to heat, light, peroxide contamination or loss of inhibitor/oxygen can trigger hazardous exothermic polymerization.
Incompatible Materials	Strong oxidizers, peroxides, polymerization initiators/catalysts, strong acids and bases.
Hazardous Decomposition	Carbon monoxide, carbon dioxide and acetic acid fumes on combustion; uncontrolled polymerization releases significant heat.

11. TOXICOLOGICAL INFORMATION

Summary	Causes skin and eye irritation and respiratory irritation; a confirmed skin sensitizer; suspected human carcinogen based on animal study evidence (IARC Group 2B), chiefly relevant at high, prolonged occupational exposure; not classified as a mutagen or reproductive toxicant based on current data.
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12. ECOLOGICAL INFORMATION

Summary	Readily biodegradable/hydrolyzable with low bioaccumulation potential; not expected to be significantly hazardous to aquatic organisms at normal use/spill concentrations, though spills should be controlled given acute irritancy.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of as hazardous waste through a licensed waste management/incineration facility in accordance with local regulations; avoid sealed-container storage of waste due to polymerization risk.
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14. TRANSPORT INFORMATION

UN Number	UN1301
Transport Hazard Class	Class 3 (Flammable liquid)
Packing Group	II

15. REGULATORY INFORMATION

Notes	Key monomer for PVA/PVOH, EVA and adhesive resin production; classified as a suspected carcinogen and sensitizer under GHS, OSHA HCS and EU CLP; regulated for transport under IMDG/ADR/IATA as UN1301 "Vinyl acetate, stabilized", Class 3, Packing Group II; shipments require verified inhibitor content.
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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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