



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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SAFETY DATA SHEET (SDS)

Vinyl Acetate Monomer (VAM)
SDS

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

CAS 108-05-4 EC 203-545-4 SIGNAL WORD DANGER

GHS02

Flammable Liquid

GHS07

Harmful / Irritant

GHS08

Health Hazard

GHS09

Environmental
Hazard

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE
COMPANY

Product Name	Vinyl Acetate Monomer (VAM)
Product Type	Industrial chemical — vinyl ester monomer / solvent
Chemical Family	Vinyl Ester
CAS No.	108-05-4
EC No.	203-545-4
Intended Use	Industrial / professional use: manufacture of polyvinyl acetate (PVA), polyvinyl alcohol (PVOH), polyvinyl butyral (PVB), adhesives, coatings, paints, and textile treatments.
Restrictions on Use	Industrial / professional use only. Confirm suitability for final application before use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/vinyl-acetate-monomer-vam
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 2; Skin Irrit. 2; Eye Irrit. 2; Acute Tox. 4 (inhalation); STOT SE 3; Carc. 1B (suspected); Muta. 2 (suspected); Aquatic Chronic 3

Signal Word

DANGER

GHS Pictograms

GHS02 (Flammable Liquid) | GHS07 (Harmful / Irritant) | GHS08 (Health Hazard) | GHS09 (Environmental Hazard)

HAZARD STATEMENTS

- H225 — Highly flammable liquid and vapour
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness
- H341 — Suspected of causing genetic defects (mutagenicity, Category 2)
- H351 — Suspected of causing cancer (carcinogenicity, Category 1B)
- H412 — Harmful to aquatic life with long lasting effects

PRECAUTIONARY — PREVENTION

- P233 — Keep container tightly closed.
- P240 — Ground/bond container and receiving equipment.
- P241 — Use explosion-proof electrical / ventilating / lighting equipment.
- P242 — Use only non-sparking tools.
- P243 — Take precautionary measures against static discharge.
- P260 — Do not breathe vapours or spray.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL



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- P301+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P303+P361+P353 — IF ON SKIN OR HAIR: Remove / take off immediately all contaminated clothing. Rinse skin with water / shower.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P331 — Do NOT induce vomiting.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P405 — Store locked up.
- P501 — Dispose of contents / container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Vinyl Acetate Monomer (VAM)	108-05-203- 4	203- 545-4	100	Flam. Liq. 2; Skin Irrit. 2; Eye Irrit. 2; Acute Tox. 4; STOT SE 3; Carc. 1B; Muta. 2; Aquatic Chronic 3

Substance is supplied with a stabiliser (typically hydroquinone or MEHQ) to inhibit polymerisation in transit and storage; stabiliser type / concentration confirmed by supplier COA. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep comfortable for breathing. If symptoms persist (dizziness, respiratory irritation) seek medical attention. Administer oxygen if breathing is laboured.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation or redness persists.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention immediately.
Ingestion	Rinse mouth. Do NOT induce vomiting. Seek medical advice immediately. If vomiting occurs naturally, keep head below hips to



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	prevent aspiration.
Note to Physician	Treat symptomatically based on exposure route and product hazards. No specific antidote known. Carcinogen / mutagen potential – advise follow-up monitoring after significant exposure.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, CO ₂ , alcohol-resistant foam, or water fog / fine spray. For small fires: dry chemical or CO ₂ .
Unsuitable Media	Direct high-pressure water jet — may spread burning liquid.
Specific Hazards	Highly flammable (flash point 7.8 °C). Vapours heavier than air; can travel to ignition sources and flash back. Containers may BLEVE when exposed to heat or fire. Combustion produces carbon monoxide, carbon dioxide, and acetic acid vapour.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). No exposed skin.
Special Procedures	Evacuate non-essential personnel. Cool fire-exposed containers with water spray. Prevent contaminated fire-fighting run-off from entering drains and waterways. Use explosion-proof / grounded equipment.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate all ignition sources. Evacuate non-essential personnel. Use PPE as specified in Section 8. Avoid breathing vapours. No open flames, sparks, or smoking in the vicinity.
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses. Notify relevant environmental and safety authorities if a significant release occurs.
Containment / Clean-up	Contain spill with inert absorbent material (sand, earth, vermiculite). Collect material into labelled, compatible, closed containers for disposal through an approved waste contractor. Avoid generating vapour.
Reference to Sections	See Section 8 for PPE details, Section 13 for disposal, Section 15 for regulatory requirements.



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SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use only in areas with adequate ventilation or local exhaust. Avoid contact with skin, eyes, and clothing. Avoid breathing vapours. Use explosion-proof equipment and grounded / bonded containers. Keep away from all ignition sources, heat, and open flames.
Hygiene	Wash hands thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink, or smoke when using this product.
Storage Conditions	Store in original, tightly closed, compatible containers (mild steel or stainless steel) in a cool, well-ventilated area away from direct sunlight. Maintain stabiliser level; test regularly.
Storage Temperature	Below 25 °C preferred; store cool. Inhibited product — do not store uninhibited material.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides), concentrated acids, halogens, strong bases, aluminium chloride at elevated temperatures.
Segregation	Segregate from food, drink, animal feed, and incompatible chemicals. Store away from heat sources and ignition risks.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	VAM (CAS 108-05-4): ACGIH TLV-TWA 10 ppm; ACGIH STEL 15 ppm. OSHA PEL-TWA not formally established for VAM — apply ALARA / good industrial hygiene. Confirm applicable India/regional OEL from statutory authority or CPCB guidelines.
Engineering Controls	Use closed-system handling, local exhaust ventilation (LEV), and general dilution ventilation. Explosion-proof electrical equipment and earthing / bonding required. Provide emergency eyewash and safety shower.
Respiratory Protection	If ventilation is inadequate: use NIOSH/EN-approved organic vapour cartridge respirator. Use SCBA for emergency response or confined-space entry.
Hand / Eye / Skin	Gloves: chemical-resistant nitrile, butyl rubber, or neoprene (verify breakthrough time with supplier). Eyes: EN 166 / ANSI Z87.1 chemical splash goggles; face shield for bulk handling. Body: chemical-



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resistant apron / coverall and antistatic safety footwear. Provide eyewash station.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless liquid
Odour	Pleasant, fruity odour (sweetish in small quantities; sharp and irritating at higher concentrations)
Odour Threshold	Not established in reviewed public source text
pH	Not applicable (pure liquid; no aqueous solution pH)
Melting / Freezing Point	–93.2 °C (–136 °F) [EPA, 1998]
Boiling Point / Range	72–73 °C (162–163 °F) at 760 mmHg [EPA, 1998]
Flash Point	7.8 °C (46 °F) closed cup
Auto-ignition Temperature	≈402 °C (756 °F) [USCG, 1999]
Flammability Limits	LEL 2.6 % v/v; UEL 13.4 % v/v [NIOSH, 2024]
Vapour Pressure	83–140 mmHg at 20–30 °C (68–86 °F); 115 mmHg at 20 °C [EPA, 1998]
Vapour Density (air = 1)	3.0 (heavier than air; will sink and accumulate in low areas) [EPA, 1998]
Relative Density	≈0.932 g/cm ³ at 20 °C (see supplier COA for grade-specific value)
Solubility in Water	≈20 g/L at 20 °C (slightly to moderately soluble); hydrolyses slowly to acetic acid and acetaldehyde
Log Pow (Partition Coeff.)	0.73 [peer-reviewed]
Evaporation Rate	Assess per applicable regional VOC regulations; rapid evaporation expected given vapour pressure
Viscosity	0.43 cPs at 20 °C [peer-reviewed]
VOC Content	100 % (pure monomer); assess per applicable regional VOC regulations

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable when stored as supplied (with inhibitor) under recommended conditions. Polymerises exothermically when exposed to light, heat, peroxides, or when inhibitor is depleted.
Conditions to Avoid	Heat, direct sunlight, ignition sources, contamination, depletion of inhibitor, uninhibited storage.



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Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride at elevated temperatures. Strong bases may cause rapid polymerisation.
Hazardous Decomposition	Carbon monoxide, carbon dioxide, and acetic acid vapour may be formed in fire or thermal decomposition.
Hazardous Reactions	Exothermic polymerisation if inhibitor is absent or at elevated temperature / in presence of initiators. No hazardous reactions under normal inhibited storage.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ (rat, oral): 2,920 mg/kg (moderately toxic). Classification: Acute Tox. 4 based on inhalation; oral hazard lower but present.
Acute Dermal Toxicity	LD ₅₀ (rabbit, dermal): >2,000 mg/kg. Skin irritant (Skin Irrit. 2).
Acute Inhalation Toxicity	LC ₅₀ (rat, 4h): ≈4,000 ppm (vapour). Harmful if inhaled (Acute Tox. 4, H332). May cause narcosis, respiratory irritation, and dizziness.
Skin Irritation	Causes skin irritation (H315, Skin Irrit. 2). Repeated contact may cause dermatitis.
Eye Irritation	Causes serious eye irritation (H319, Eye Irrit. 2). Vapour also irritating to eyes.
Sensitisation	Not classified as a skin sensitiser; respiratory sensitisation data insufficient — precautionary avoidance of vapour inhalation recommended.
Carcinogenicity	Classified Carc. 1B (H351: Suspected of causing cancer). IARC Group 2B (possibly carcinogenic to humans). Avoid exposure.
Mutagenicity	Classified Muta. 2 (H341: Suspected of causing genetic defects). Genotoxicity data available in ECHA/IARC dossier. Avoid exposure.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Chronic 3 (H412). Acute fish LC ₅₀ (96h): ≈14 mg/L (moderately toxic). Hydrolyses in water to acetic acid and acetaldehyde — further ecotoxicological burden possible.
Persistence / Degradability	Readily biodegradable under aerobic conditions. Hydrolyses in water. BOD/COD data available from supplier / ECHA.



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Bioaccumulation	Low bioaccumulation potential; log Kow 0.73 (below threshold of 3). BCF estimated as low.
Mobility in Soil	Moderate volatility and water solubility suggest potential for soil and groundwater mobility. Prevent release to soil and watercourses.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases under applicable environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised hazardous waste contractor in accordance with local, state, and national regulations. Do not pour into drains or watercourses.
Contaminated Packaging	Empty containers may retain flammable residues and vapours. Handle as hazardous. Clean by an approved method or dispose as hazardous waste.
Indian Regulations	Follow Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (as amended) under the Environment (Protection) Act. Obtain waste authorisation from State Pollution Control Board (SPCB) / CPCB as applicable.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1301	UN 1301	UN 1301
Proper Shipping Name	Vinyl acetates, stabilized	Vinyl acetates, stabilized	Vinyl acetates, stabilized
Class	3	3	3
Packing Group	II	II	II
Marine Pollutant	No	No	N/A

Verify current ADR, IMDG (EmS: F-E, S-D), and IATA DGR requirements with carrier before shipment. UN-certified drum / IBC required for international transport; label with Class 3 placard, UN 1301, PG II, and product name. Tunnel restriction code (ADR): D/E – verify with carrier.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Substance registered under REACH. Classified and labelled per CLP Regulation (EC) No 1272/2008 as listed in Section 2. Subject to SVHC
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screening; check ECHA candidate list. Observe Annex II SDS requirements.

OSHA (USA)	Prepared in OSHA HCS / HazCom 2012 aligned 16-section SDS format. VAM is listed as a Hazardous Chemical. TSCA inventory status: listed. Verify SNUR status before US import.
India	Observe applicable MSIHC Rules 1989 (as amended), Factories Act 1948, Hazardous Waste Rules 2016, Environment (Protection) Act, and applicable CPCB / SPCB requirements. Handle as Class 3 flammable liquid.
Other Jurisdictions	Canada WHMIS 2015 / HPR: classify and label using Section 2 classification; bilingual SDS / label required for Canadian sale. China GB standards: use applicable GB/T SDS requirements where marketed. Australia AICS: verify inventory status before export or import. GCC / Middle East: observe GHS-aligned local requirements.

SECTION 16 OTHER INFORMATION

Prepared By	Supreme Petro Chemicals — Technical Department
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format
Revision Date	24 June 2026
Version	3.0 (supersedes prior issues)
Disclaimer	Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is responsible for safe use, handling and compliance.

FULL TEXT OF H-STATEMENTS

- H225 — Highly flammable liquid and vapour
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness
- H341 — Suspected of causing genetic defects
- H351 — Suspected of causing cancer



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- H412 — Harmful to aquatic life with long lasting effects
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