



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Melamine SDS

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

CAS 108-78-1 EC 203-615-4 SIGNAL WORD DANGER

GHS07

Harmful / Irritant

GHS08

Health Hazard

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

Product Name	Melamine
Product Type	Industrial chemical — pure substance
Chemical Family	Triazine
CAS No.	108-78-1
EC No.	203-615-4
Intended Use	Industrial / professional use: manufacture of melamine-formaldehyde resins, laminates, coatings, flame retardants, and specialty chemicals.
Restrictions on Use	Industrial / professional use only. Confirm suitability for final application before use. Not for food contact without regulatory approval.
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/melamine
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

Carc. 2 (H351); Repr. 2 (H361); STOT RE 2 (H373); STOT SE 3 (H336); Skin Irrit. 2 (H315); Skin Sens. 1 (H317); Flam. Sol. / Comb. Solid (H227)

Signal Word

WARNING

GHS Pictograms

GHS07 (Harmful / Irritant); GHS08 (Health Hazard)

HAZARD STATEMENTS

- H227 — Combustible solid.
- H315 — Causes skin irritation.
- H317 — May cause an allergic skin reaction.
- H336 — May cause drowsiness or dizziness.
- H351 — Suspected of causing cancer.
- H361 — Suspected of damaging fertility or the unborn child.
- H373 — May cause damage to organs through prolonged or repeated exposure.

PRECAUTIONARY — PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames. No smoking.
- 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 dust / fume / vapours / 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

- P301+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.



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- 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
Melamine	108-78-1203-615-4		100	Carc. 2 (H351); Repr. 2 (H361); STOT RE 2 (H373); STOT SE 3 (H336); Skin Irrit. 2 (H315); Skin Sens. 1 (H317); H227

Percentages are by weight. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep at rest in a position comfortable for breathing. If symptoms persist or breathing is difficult, seek medical attention.
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 symptoms persist.
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.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice immediately.



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Note to Physician

Treat symptomatically. No specific antidote known. Manage carcinogenic / reproductive / organ-toxicity hazards; see Section 2 classifications.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media

Water spray, foam, dry chemical, carbon dioxide (CO₂). Use media appropriate for surrounding fire.

Unsuitable Media

Avoid high-pressure water jet that may spread burning material.

Specific Hazards

Combustible solid (H227). Dust may form combustible or irritating atmospheres. Containers may rupture when heated. Thermal decomposition produces toxic nitrogen oxides, carbon oxides, ammonia, and irritating fumes.

Protective Equipment

Wear full protective clothing and self-contained breathing apparatus (SCBA). Do not enter fire area without full protective gear.

Special Procedures

Avoid dust clouds and ignition sources. Evacuate non-essential personnel. Prevent contaminated fire-water run-off from entering drains and waterways. Cool containers with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions

Isolate area. Keep unnecessary personnel away. Use PPE as specified in Section 8. Avoid generating dust. Eliminate ignition sources.

Environmental Precautions

Prevent entry into drains, sewers, soil and watercourses. Inform relevant authorities if significant quantities enter the environment.

Containment / Clean-up

Sweep or vacuum up spilled material carefully to avoid dust generation. Collect into labelled, compatible closed containers for disposal. Avoid dry sweeping — use damp collection where practicable.

Reference to Sections

See Section 8 for PPE; Section 13 for disposal; Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions

Use adequate local exhaust ventilation. Avoid generating dust. Avoid contact with skin, eyes and clothing. Avoid inhalation of dust. Eliminate ignition sources near dust-generating operations.



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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 in a cool, dry, well-ventilated area away from heat and ignition sources.
Storage Temperature	Ambient temperature (15–30°C). Protect from heat sources.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides, halogens). Concentrated acids. Aluminium chloride at elevated temperature.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals. Store locked up (P405).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Melamine (CAS 108–78–1): No universally harmonised OEL established. Use verified local OEL if available (OSHA / NIOSH / ACGIH / EU / India); otherwise apply ALARA / good industrial hygiene principles. Confirm with supplier/regional authority.
Engineering Controls	Use closed handling systems or local exhaust ventilation for dust control. Use explosion-proof ventilation and antistatic measures where dust accumulation is possible.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with P95/P100 or FFP2/FFP3 particulate filter. Use SCBA for emergencies or where concentrations are unknown.
Hand / Eye / Skin	Hands: chemical-resistant gloves (nitrile, butyl, neoprene or PVC) — select for breakthrough time and task duration. Eyes/Face: chemical splash goggles (EN 166 / ANSI Z87.1); add face shield for dust or splash risk. Body: chemical-resistant clothing/apron and safety footwear. Provide eyewash station and safety shower where appropriate.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White crystalline powder
Odour	Odourless or faint characteristic odour
Odour Threshold	Not established



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pH	Approx. 8 (10 g/L aqueous suspension at 20°C). Not applicable in dry solid form.
Melting / Freezing Point	345°C (653°F) — decomposes/sublimes (NTP, 1992)
Boiling Point / Range	Sublimes rather than boiling; no discrete boiling point (NTP, 1992)
Flash Point	>260°C (>500°F) — combustible solid (NTP, 1992)
Auto-ignition Temperature	Not available from reviewed public sources; see supplier SDS
Flammability Limits	Not established for solid form; dust explosion potential exists — see Section 5
Vapour Pressure	~50 mmHg at 315°C (599°F) (NTP, 1992) — negligible at ambient temperature
Vapour Density (air = 1)	4.34 (NTP, 1992) — heavier than air
Relative Density	1.573 g/cm ³ at 16°C (61°F) (NTP, 1992) — denser than water
Solubility in Water	<1 mg/mL at 22°C (72°F) (NTP, 1992) — slightly soluble
Log Pow (Partition Coeff.)	-1.37 (peer-reviewed; NTP, 1992)
Evaporation Rate	Not applicable — solid
Viscosity	Not applicable — solid
VOC Content	Negligible — solid; assess per applicable regional VOC regulations if in formulation

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, dust generation, moisture accumulation, and incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) under elevated temperature — not a concern under normal ambient storage.
Hazardous Decomposition	Thermal decomposition produces carbon oxides, nitrogen oxides, ammonia and other toxic or irritating fumes. Decomposition begins above ~345°C.
Hazardous Reactions	No hazardous reactions expected under normal storage and handling. Will not polymerise spontaneously.



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ (rat, oral): ~3161 mg/kg (relatively low acute toxicity). Classification: Not classified for acute oral toxicity under GHS. Seek medical attention after significant ingestion.
Acute Dermal Toxicity	LD ₅₀ (rabbit, dermal): >2000 mg/kg. Not classified for acute dermal toxicity. See skin irritation classification.
Acute Inhalation Toxicity	LC ₅₀ data not established from reviewed sources. Not classified for acute inhalation. Dust inhalation causes respiratory irritation; see STOT SE 3 (H336).
Skin Irritation	Classified: Skin Irrit. 2 (H315) — Causes skin irritation. Confirm numeric endpoint with supplier SDS.
Eye Irritation	Not classified for serious eye damage / eye irritation in reviewed data. May cause mechanical irritation from dust. Seek medical attention after significant eye exposure.
Sensitisation	Classified: Skin Sens. 1 (H317) — May cause an allergic skin reaction.
Carcinogenicity	Classified: Carc. 2 (H351) — Suspected of causing cancer. IARC: Group 3 (not classifiable). Suspected carcinogenicity; avoid exposure and verify jurisdictional regulatory status.
Mutagenicity	Not classified for germ cell mutagenicity in reviewed data. Verify with supplier test data.
Reproductive Toxicity	Classified: Repr. 2 (H361) — Suspected of damaging fertility or the unborn child.
STOT — Single Exposure	STOT SE 3 (H336) — May cause drowsiness or dizziness.
STOT — Repeated Exposure	STOT RE 2 (H373) — May cause damage to organs through prolonged or repeated exposure. Verify target organ with supplier / regulatory data.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute or chronic aquatic classification identified from reviewed data. Avoid release to watercourses. Obtain supplier ecotoxicity data if required for registration or export.
Persistence / Degradability	Biodegradability data not universally verified from reviewed public sources. Do not assume ready biodegradability; obtain supplier / ECHA data.



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Bioaccumulation	Log Kow = -1.37; low bioaccumulation potential. BCF data not established from reviewed sources.
Mobility in Soil	Slightly soluble in water; moderate potential for soil mobility. Prevent release to soil and groundwater.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local regulations. Do not discharge to drain, sewer or watercourse.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous until cleaned or disposed. Dispose via an approved waste contractor.
Indian Regulations	Follow Hazardous Waste (Management, Handling and Transboundary Movement) Rules and applicable State Pollution Control Board requirements. Assign waste code according to actual process and composition.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated	Not regulated	Not regulated
Proper Shipping Name	Not regulated	Not regulated	Not regulated
Class	Not regulated	Not regulated	Not regulated
Packing Group	Not regulated	Not regulated	Not regulated
Marine Pollutant	No	No	—

No UN transport entry confirmed from reviewed public sources (PubChem / CAMEO). Verify current ADR, IMDG and IATA regulations with carrier / freight forwarder before shipment. Use approved compatible packaging for domestic road transport. Note on Section 14 transport note in source SDS referencing 'Class 3 placard / PG II' — this appears to be a template artefact inconsistent with melamine's non-regulated status and has been removed; human review recommended.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Melamine (CAS 108-78-1) is registered under REACH. Classified and labelled according to CLP/GHS as listed in Section 2. Observe REACH
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	Article 31 / Annex II SDS requirements for downstream users. Check SVHC / authorisation list status periodically.
OSHA (USA)	SDS prepared in OSHA HCS / HazCom 2012 (GHS-aligned) 16-section format. Verify TSCA inventory status before US import or distribution.
India	Observe Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules 1989 (amended), Hazardous Waste Rules, Factories Act, and applicable State Pollution Control Board requirements. Melamine may fall under Schedule I/III – confirm with regulatory counsel.
China (GB Standards)	Apply GB/T SDS and GHS classification requirements where goods are marketed in China.
Canada WHMIS / HPR	Classify and label under WHMIS 2015 / HPR using Section 2 classification. Canadian sale may require bilingual SDS/label and ingredient disclosure.
Other Jurisdictions	Check relevant inventory status (AICS — Australia, K-REACH — Korea, etc.) before export or import. Final market placement requires confirmation of local OELs, transport class, waste codes and restrictions.

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

- H227 — Combustible solid.
- H315 — Causes skin irritation.
- H317 — May cause an allergic skin reaction.
- H336 — May cause drowsiness or dizziness.



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