



SUPREME PETRO  
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·  
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,  
Periyamet, Chennai – 600003, India  
+91 86087 80096 · +91 81979 47045  
admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Paraformaldehyde 96% *SDS*

REV 1.0  
31 JULY 2026  
GHS REV.11 (2025)

CAS 30525-89-4      EC 608-494-5 (ECHA List number – paraformaldehyde has no EINECS entry)

SIGNAL WORD DANGER

GHS02

Flammable Solid

GHS05

Corrosive / Eye  
Damage

GHS07

Harmful / Irritant

GHS08

Health Hazard

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

|                     |                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name        | Paraformaldehyde 96%                                                                                                                          |
| Synonyms            | Paraform; PFA; formaldehyde polymer; polyoxymethylene; polyformaldehyde; poly(oxymethylene) glycols                                           |
| Product Type        | Solid formaldehyde source — free-flowing white prills                                                                                         |
| Chemical Family     | Poly(oxymethylene) glycols, HO(CH <sub>2</sub> O) <sub>n</sub> H                                                                              |
| Molecular Formula   | (CH <sub>2</sub> O) <sub>n</sub>                                                                                                              |
| CAS No.             | 30525-89-4                                                                                                                                    |
| EC No.              | 608-494-5 (ECHA List number — paraformaldehyde has no EINECS entry)                                                                           |
| ECHA Infocard       | 100.108.270                                                                                                                                   |
| Intended Use        | Industrial / professional use as listed on the SPC product page.                                                                              |
| Restrictions on Use | Industrial / professional use only. Confirm grade suitability before regulated or consumer use.                                               |
| Supplier            | Supreme Petro Chemicals                                                                                                                       |
| Address             | No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, Tamil Nadu, India                                                         |
| Emergency Contact   | Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045                                                                                       |
| Email               | admin@supremepetrochemicals.com                                                                                                               |
| Product Page        | <a href="https://www.supremepetrochemicals.com/products/paraformaldehyde">https://www.supremepetrochemicals.com/products/paraformaldehyde</a> |
| SDS Revision        | July 2026                                                                                                                                     |



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SDS Version 1.0

## SECTION 2 HAZARD IDENTIFICATION

Flam. Sol. 2 (H228); Acute Tox. 4 oral (H302); Acute Tox. 4 inhalation, dusts and mists (H332); Skin Irrit. 2 (H315); Skin Sens. 1 (H317); Eye Dam. 1 (H318); Carc. 2 (H351); STOT SE 3 respiratory (H335). IMPORTANT: there is no harmonised CLP Annex VI (CLH) entry for paraformaldehyde – the classification above is a self-classification consistent with the ECHA C&L aggregate for EC 608-494-5 and with the Thermo Fisher Scientific substance SDS (Rev 3, 14-Apr-2016). Some suppliers escalate to Carc. 1B (H350) and Muta. 2 (H341) by read-across from formaldehyde's harmonised entry (Index 605-001-00-5); some also add Aquatic Chronic 3 (H412) or respiratory sensitisation (H334), the latter appearing on the ECHA C&L aggregate. Verify from supplier COA/SDS for the specific grade.

|                  |                                                                                          |
|------------------|------------------------------------------------------------------------------------------|
| Signal Word      | DANGER                                                                                   |
| GHS Pictograms   | GHS02 (Flame)   GHS05 (Corrosion)   GHS07 (Exclamation mark)   GHS08 (Health hazard)     |
| Combustible Dust | Yes – may form combustible dust concentrations in air (Thermo Fisher Scientific SDS §2). |
| Target Organs    | Respiratory system.                                                                      |

### HAZARD STATEMENTS

- H228 – Flammable solid
- H302 – Harmful if swallowed
- H332 – Harmful if inhaled
- H315 – Causes skin irritation
- H317 – May cause an allergic skin reaction
- H318 – Causes serious eye damage
- H335 – May cause respiratory irritation
- H351 – Suspected of causing cancer

### PRECAUTIONARY – PREVENTION

- P201 – Obtain special instructions before use.
- P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 – Ground and bond container and receiving equipment.



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- P241 — Use explosion-proof electrical / ventilating / lighting equipment.
- P260 — Do not breathe dust.
- P264 — Wash hands and exposed skin thoroughly after handling.
- P270 — Do not eat, drink or smoke when using this product.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P280 — Wear protective gloves / protective clothing / eye protection / face protection.

## PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL

- P301+P312 — IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P302+P352 — IF ON SKIN: Wash with plenty of water and soap.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338+P310 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
- P308+P313 — IF exposed or concerned: Get medical advice/attention.
- P333+P313 — If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 — Take off contaminated clothing and wash it before reuse.
- P370+P378 — In case of fire: Use water spray, foam, dry chemical or carbon dioxide for extinction.
- P403+P233 — Store in a well-ventilated place. Keep container tightly closed.
- 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                                                                                                                             |
|-------------------------------------------------------------------------------------|------------|-----------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Paraformaldehyde (poly(oxymethylene) glycols, HO(CH <sub>2</sub> O) <sub>n</sub> H) | 30525-89-4 | 608-494-5 | ≥ 95 (as HCHO) | Flam. Sol. 2 (H228); Acute Tox. 4 (H302, H332); Skin Irrit. 2 (H315); Skin Sens. 1 (H317); Eye Dam. 1 (H318); Carc. 2 (H351); STOT SE 3 (H335) |
| Combined and free water (grade-dependent balance)                                   | —          | —         | Balance        | Not separately classified at the concentrations present. Verify from supplier                                                                  |



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| COMPONENT               | CAS<br>NO. | EC<br>NO. | % W/W | GHS CLASSIFICATION |
|-------------------------|------------|-----------|-------|--------------------|
| COA for specific grade. |            |           |       |                    |

*Paraformaldehyde is not a compound of exactly defined molecular weight — it is a mixture of poly(oxymethylene) glycols of varying chain length, with water as the balance of the assay. The water content of commercial grades is grade-dependent and is confirmed on the supplier Certificate of Analysis. No Annex VI Index number exists for this substance; the EC number shown is an ECHA List number, and the substance carries no EINECS listing (corroborated by the Thermo Fisher Scientific SDS §15 international inventory table, which shows EINECS as not listed). Percentages are by weight; aldehyde content is expressed as HCHO. Full text of H-statements listed in Section 16.*

## SECTION 4 FIRST AID MEASURES

|                         |                                                                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation              | Remove person to fresh air immediately and keep comfortable for breathing. If breathing is difficult, give oxygen. Formaldehyde vapour released from the solid irritates the eyes, nose, throat and respiratory tract. If coughing, breathlessness or irritation persists, seek medical attention. |
| Skin Contact            | Remove contaminated clothing immediately. Wash affected skin with plenty of soap and water for at least 15 minutes. This substance is a skin sensitiser — if irritation, rash or any allergic reaction develops, get medical advice/attention. Wash contaminated clothing before reuse.            |
| Eye Contact             | Causes serious eye damage. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing and obtain immediate medical attention.                                                                      |
| Ingestion               | Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor immediately.                                                                                                                                                 |
| Most Important Symptoms | Breathing difficulties; eye burns; possible allergic skin reaction. Inhalation of high vapour concentrations may cause headache, dizziness, tiredness, nausea and vomiting (Thermo Fisher Scientific SDS §4).                                                                                      |
| Note to Physician       | Treat symptomatically. Effects are those of formaldehyde exposure — mucous-membrane and respiratory irritation, possible dermal sensitisation. Ingestion may cause irritation of the gastrointestinal tract.                                                                                       |



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## SECTION 5 FIREFIGHTING MEASURES

|                                             |                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>         | Water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide (Thermo Fisher Scientific SDS §5).                                                                                                                                                                                                                                                        |
| <b>Unsuitable Media</b>                     | Avoid high-pressure water jets, which may disperse the solid and raise a combustible dust cloud.                                                                                                                                                                                                                                                                     |
| <b>Specific Hazards</b>                     | Flammable solid (UN 2213, Class 4.1). Containers may explode when heated; fine dust dispersed in air may ignite. On heating the material depolymerises and releases formaldehyde gas, which is flammable, heavier than air and can form explosive mixtures with air and travel to a distant ignition source. Combustion produces carbon monoxide and carbon dioxide. |
| <b>Flammability Limits (evolved vapour)</b> | LEL 7.0% v/v · UEL 73% v/v (Thermo Fisher Scientific SDS §5 and §9).                                                                                                                                                                                                                                                                                                 |
| <b>Protective Equipment</b>                 | Wear full protective clothing and self-contained breathing apparatus (SCBA). Keep upwind.                                                                                                                                                                                                                                                                            |
| <b>Special Procedures</b>                   | Evacuate non-essential personnel. Cool intact containers with water spray from a protected position. Prevent contaminated firewater runoff from entering drains and watercourses.                                                                                                                                                                                    |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

|                                  |                                                                                                                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>      | Eliminate all ignition sources. Avoid dust formation and take precautionary measures against static discharge. Ensure adequate ventilation — released formaldehyde vapour is heavier than air and accumulates at low level. Wear appropriate PPE (see Section 8) including respiratory protection. |
| <b>Environmental Precautions</b> | Should not be released into the environment. Prevent entry into drains, sewers, soil and watercourses. Notify environmental authorities if a significant release reaches a waterway.                                                                                                               |
| <b>Containment / Clean-up</b>    | Sweep or vacuum carefully into labelled, closeable containers using non-sparking tools and a dust-controlled method. Do not use compressed air. Do not flush to drain. Keep the collected material away from hydrochloric acid and strong oxidisers.                                               |
| <b>Reference to Sections</b>     | See Section 8 for PPE, Section 10 for incompatibilities, Section 13 for disposal, and Section 15 for regulatory information.                                                                                                                                                                       |



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## SECTION 7 HANDLING AND STORAGE

|                        |                                                                                                                                                                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling Precautions   | Use only in a well-ventilated area with local exhaust at dust-generating points. Ground and bond equipment; avoid dust accumulation and static discharge. Do not breathe dust. Avoid contact with skin and eyes. Keep away from heat, hot surfaces, sparks and open flames.   |
| Hygiene                | Wash hands and exposed skin thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product.                                                                                                                |
| Storage Conditions     | Keep containers tightly closed in a dry, cool and well-ventilated place, protected from direct sunlight, moisture and humid conditions. Keep away from heat and sources of ignition. Moisture-barrier bag construction is preferred given the formaldehyde-evolution profile. |
| Storage Temperature    | Ambient. Keep cool and well below the 120–170°C softening/decomposition range.                                                                                                                                                                                                |
| Stock Rotation         | Operate first-in-first-out. Slow depolymerisation during storage progressively raises free formaldehyde and acidity — test acidity as formic acid on arrival and before use.                                                                                                  |
| Incompatible Materials | Strong oxidising agents (Thermo Fisher Scientific SDS §10). Hydrochloric acid (CAMEO Chemicals datasheet 4156). Strong acids and strong bases accelerate depolymerisation and formaldehyde release.                                                                           |
| Segregation            | Segregate strictly from hydrochloric acid — contact forms bis(chloromethyl) ether, a potent human carcinogen. Segregate from oxidisers, strong bases, food, drink and animal feed.                                                                                            |

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupational Exposure Limit | No OEL is established for paraformaldehyde as a polymer. Control is based on the formaldehyde it releases. EU binding OEL, Directive (EU) 2019/983 amending Directive 2004/37/EC: 0.3 ppm (0.37 mg/m <sup>3</sup> ) 8h TWA and 0.6 ppm (0.74 mg/m <sup>3</sup> ) 15-minute STEL. UK HSE EH40 WEL: 2 ppm (2.5 mg/m <sup>3</sup> ) 8h TWA and STEL. Verify the applicable local limit (India Factories Act Schedule II / ACGIH / NIOSH / OSHA) before assigning workplace controls, and apply the more |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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stringent value where jurisdictions differ. Also apply a respirable-dust control for the solid.

## Engineering Controls

Use closed handling systems and local exhaust ventilation at all bag-opening, charging and transfer points. Provide general dilution ventilation at low level, as formaldehyde vapour is heavier than air. Use explosion-proof electrical, ventilating and lighting equipment. Provide emergency eyewash stations and safety showers close to the workstation.

## Respiratory Protection

Where dust or formaldehyde vapour may exceed the applicable limit, use a NIOSH/MSHA or EN 149 approved combination particulate plus formaldehyde/organic-vapour cartridge respirator. Use SCBA for emergency and fire situations.

## Hand / Eye / Skin

Hands: chemical-resistant gloves (nitrile or butyl; select thickness and breakthrough time for the task — this substance is a skin sensitizer). Eyes: EN 166 / ANSI Z87.1 tightly fitting chemical splash goggles plus face shield where dust or splash risk exists. Skin: long-sleeved chemical-resistant protective clothing or coverall, apron and antistatic safety footwear.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Free-flowing white prills. Solid. Also supplied commercially as flakes, granules and fine powder depending on grade.

### Odour

Characteristic pungent formaldehyde odour.

### Odour Threshold

No data located in reviewed sources.

### pH

6.0–8.0 (10% aqueous suspension) to the specification quoted on enquiry. Published values for commercial grades are more acidic: 3.5–5.0 in 10% suspension (Thermo Fisher Scientific SDS §9) and 4–7 (Balaji Formalin published prills TDS). Verify from supplier COA for specific grade.

### Melting / Freezing Point

120–170°C — softens and depolymerises across a range rather than melting sharply (Thermo Fisher Scientific SDS §9; CAMEO Chemicals datasheet 4156 gives 342°F ≈ 172°C).

### Boiling Point / Range

Not applicable — depolymerises to formaldehyde gas rather than boiling. No boiling point reported by Thermo Fisher Scientific or CAMEO Chemicals.

### Flash Point

71°C / 159.8°F (Thermo Fisher Scientific SDS §9; CAMEO Chemicals datasheet 4156 gives 160°F approx.). Neither source states the test



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|                                   |                                                                                                                                                                                                                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | method. An open-cup value of 93°C is published for prilled grades (Balaji Formalin published prills TDS).                                                                                                                                                                                         |
| <b>Auto-ignition Temperature</b>  | 300°C / 572°F (Thermo Fisher Scientific SDS §9; CAMEO Chemicals datasheet 4156).                                                                                                                                                                                                                  |
| <b>Flammability Limits</b>        | LEL 7.0% v/v · UEL 73% v/v (Thermo Fisher Scientific SDS §9). These apply to the formaldehyde vapour evolved on heating, which is heavier than air. The bulk solid additionally forms combustible dust concentrations in air.                                                                     |
| <b>Vapour Pressure</b>            | 1.2 mmHg at 25°C (Thermo Fisher Scientific SDS §9). Formaldehyde is evolved progressively on heating and in humid storage.                                                                                                                                                                        |
| <b>Vapour Density (air = 1)</b>   | Not applicable to the solid (Thermo Fisher Scientific SDS §9). Formaldehyde vapour evolved is heavier than air.                                                                                                                                                                                   |
| <b>Relative Density</b>           | Specific gravity 1.46 — sinks in water (Thermo Fisher Scientific SDS §9; CAMEO Chemicals datasheet 4156, 1.46 at 59°F). Bulk density 700–850 kg/m <sup>3</sup> typical of prilled grades (Balaji Formalin published prills TDS).                                                                  |
| <b>Particle Size</b>              | Grade-dependent. Verify from supplier COA for specific grade.                                                                                                                                                                                                                                     |
| <b>Solubility in Water</b>        | Dissolves with depolymerisation rather than as a simple physical dissolution: slow in cold water, rapid in hot water, and markedly accelerated by small quantities of dilute acid or alkali, yielding formaldehyde solution. Thermo Fisher Scientific SDS §9 reports no numeric solubility value. |
| <b>Log Pow (Partition Coeff.)</b> | No data available (Thermo Fisher Scientific SDS §9).                                                                                                                                                                                                                                              |
| <b>Evaporation Rate</b>           | Not applicable (solid at ambient conditions).                                                                                                                                                                                                                                                     |
| <b>Viscosity</b>                  | Not applicable (solid).                                                                                                                                                                                                                                                                           |
| <b>Decomposition Temperature</b>  | No discrete value reported. Depolymerises progressively on heating; see melting/decomposition range 120–170°C.                                                                                                                                                                                    |

## SECTION 10 STABILITY AND REACTIVITY

|                            |                                                                                                                                                                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chemical Stability</b>  | Stable under recommended storage conditions. Slowly depolymerises over time, releasing formaldehyde and raising acidity — this is why acidity as formic acid is a specification parameter and why first-in-first-out stock rotation is required. |
| <b>Conditions to Avoid</b> | Excess heat, hot surfaces, sparks, open flame and all ignition sources. Direct sunlight. Moisture and humid storage. Dust formation and dust accumulation.                                                                                       |



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|                                       |                                                                                                                                                                                                                                                                                                    |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Incompatible Materials</b>         | Strong oxidising agents (Thermo Fisher Scientific SDS §10). Hydrochloric acid (CAMEO Chemicals datasheet 4156). Strong acids and strong bases accelerate depolymerisation and formaldehyde release.                                                                                                |
| <b>Hazardous Reactions — CRITICAL</b> | Contact between paraformaldehyde (or the formaldehyde vapour it releases) and HYDROCHLORIC ACID forms BIS(CHLOROMETHYL) ETHER, a potent human carcinogen. Reported in the CAMEO Chemicals datasheet for paraformaldehyde (entry 4156). Never store, handle or clean up the two materials together. |
| <b>Hazardous Polymerisation</b>       | Does not occur (Thermo Fisher Scientific SDS §10).                                                                                                                                                                                                                                                 |
| <b>Hazardous Decomposition</b>        | Formaldehyde gas, evolved on heating and on contact with water, capable of forming explosive mixtures with air. In fire: carbon monoxide and carbon dioxide (Thermo Fisher Scientific SDS §10).                                                                                                    |

## SECTION 11 TOXICOLOGICAL INFORMATION

|                                  |                                                                                                                                                                                                                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute Oral Toxicity</b>       | LD50 (rat, oral) 800 mg/kg (Thermo Fisher Scientific SDS §11 component table). Classified Acute Tox. 4 (H302).                                                                                                                                                                                |
| <b>Acute Dermal Toxicity</b>     | Not listed; based on ATE data the classification criteria are not met, ATE > 2000 mg/kg (Thermo Fisher Scientific SDS §11). Not classified for acute dermal toxicity. Some suppliers additionally self-classify Acute Tox. 4 dermal (H312) — verify from supplier SDS for the specific grade. |
| <b>Acute Inhalation Toxicity</b> | LC50 (rat, 4 h) 1,070 mg/m <sup>3</sup> ≈ 1.07 mg/L (Thermo Fisher Scientific SDS §11 component table). Classified Acute Tox. 4 (H332), dusts and mists. NOTE: figures of '1,070 mg/L' circulating in some SDSs are a unit error — the correct unit is mg/m <sup>3</sup> .                    |
| <b>Skin Irritation</b>           | Classified Skin Irrit. 2 (H315) — causes skin irritation. Irritating to eyes, respiratory system and skin (Thermo Fisher Scientific SDS §11).                                                                                                                                                 |
| <b>Eye Irritation / Damage</b>   | Classified Eye Dam. 1 (H318) — causes serious eye damage.                                                                                                                                                                                                                                     |
| <b>Sensitisation</b>             | Classified Skin Sens. 1 (H317) — may cause an allergic skin reaction. Respiratory sensitisation (H334) appears on the ECHA C&L aggregate for EC 608-494-5 but is not carried in the Thermo Fisher Scientific substance SDS — verify from supplier SDS before relying on either position.      |
| <b>Carcinogenicity</b>           | Classified Carc. 2 (H351) — suspected of causing cancer. Paraformaldehyde itself is not listed by IARC, NTP, ACGIH or OSHA (Thermo Fisher Scientific SDS §11 carcinogenicity table);                                                                                                          |



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carcinogenic effects have been reported in experimental animals. There is no harmonised CLP entry; some EU suppliers classify as Carc. 1B (H350) by read-across from formaldehyde, whose harmonised entry (Index 605-001-00-5) is Carc. 1B. The mechanistic basis is release of formaldehyde. Verify from supplier COA/SDS for the specific grade.

|                                              |                                                                                                                                                                                                                                                                                       |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mutagenicity</b>                          | Not classified in the classification adopted in Section 2. Mutagenic effects have occurred in experimental animals (Thermo Fisher Scientific SDS §11). Some suppliers self-classify Muta. 2 (H341) by read-across from formaldehyde. Verify from supplier SDS for the specific grade. |
| <b>STOT — Single Exposure</b>                | Classified STOT SE 3 (H335) — may cause respiratory irritation; target organ the respiratory system, consistent with formaldehyde release.                                                                                                                                            |
| <b>STOT — Repeated Exposure</b>              | None known (Thermo Fisher Scientific SDS §11).                                                                                                                                                                                                                                        |
| <b>Reproductive / Developmental Toxicity</b> | No information available (Thermo Fisher Scientific SDS §11).                                                                                                                                                                                                                          |

## SECTION 12 ECOLOGICAL INFORMATION

|                                         |                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Aquatic Toxicity — Fish</b>          | Freshwater fish: > 10 mg/L, 96 h (Thermo Fisher Scientific SDS §12).                                                                                                                                                                                                                                     |
| <b>Aquatic Toxicity — Invertebrates</b> | Water flea (Daphnia): EC50 = 42 mg/L, 24 h (Thermo Fisher Scientific SDS §12).                                                                                                                                                                                                                           |
| <b>Aquatic Toxicity — Algae</b>         | Not listed (Thermo Fisher Scientific SDS §12).                                                                                                                                                                                                                                                           |
| <b>Classification</b>                   | No aquatic hazard is carried in the classification adopted in Section 2, and none appears in the ECHA C&L aggregate for EC 608-494-5 or the Thermo Fisher Scientific SDS. Some suppliers self-classify Aquatic Chronic 3 (H412) — verify from supplier SDS for the specific grade and label accordingly. |
| <b>Persistence / Degradability</b>      | No information available (Thermo Fisher Scientific SDS §12).                                                                                                                                                                                                                                             |
| <b>Bioaccumulation</b>                  | No information available (Thermo Fisher Scientific SDS §12).                                                                                                                                                                                                                                             |
| <b>Mobility in Soil</b>                 | No information available in reviewed sources. The substance depolymerises in contact with water to formaldehyde, which is water-soluble and mobile; prevent release to soil and surface water.                                                                                                           |
| <b>Other Adverse Effects</b>            | Do not empty into drains. Avoid uncontrolled release; manage waste under applicable local environmental regulations.                                                                                                                                                                                     |



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## SECTION 13 DISPOSAL CONSIDERATIONS

|                        |                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste from Product     | Dispose of through an authorised hazardous-waste contractor in accordance with local, regional and national regulations. Waste generators must determine whether the discarded chemical is classified as hazardous waste. Do not dispose of into drains, watercourses or soil. Do not mix with hydrochloric acid or oxidisers at any point in the waste stream. |
| Contaminated Packaging | Empty bags may retain residues and continue to release formaldehyde; handle as hazardous waste until decontaminated or disposed of according to local packaging waste regulations. Do not reuse.                                                                                                                                                                |
| Indian Regulations     | Follow applicable Hazardous Wastes (Management, Handling and Transboundary Movement) Rules under the Environment Protection Act, and SPCB/CPCB requirements. Assign the waste code per actual process and the local regulatory schedule.                                                                                                                        |

## SECTION 14 TRANSPORT INFORMATION

| PARAMETER            | UN / ADR (ROAD)       | IMDG (SEA)            | IATA (AIR)            |
|----------------------|-----------------------|-----------------------|-----------------------|
| UN Number            | UN 2213               | UN 2213               | UN 2213               |
| Proper Shipping Name | PARAFORMALDEHYDE      | PARAFORMALDEHYDE      | PARAFORMALDEHYDE      |
| Class                | 4.1 (Flammable solid) | 4.1 (Flammable solid) | 4.1 (Flammable solid) |
| Packing Group        | III                   | III                   | III                   |
| Label                | 4.1                   | 4.1                   | 4.1                   |
| Marine Pollutant     | —                     | No                    | —                     |

Verified against the Thermo Fisher Scientific paraformaldehyde SDS §14, which lists UN 2213, PARAFORMALDEHYDE, Class 4.1, Packing Group III identically under DOT, TDG, IATA and IMDG/IMO, and records the material as not a DOT marine pollutant. Use UN-certified packaging appropriate to a Class 4.1 PG III solid; bags and pallets must be marked and labelled with UN 2213, the Class 4.1 label, PG III and the proper shipping name. EmS codes, ADR tunnel restriction code, segregation groups and any modal exemptions must be confirmed against the current ADR / IMDG / IATA edition before each shipment. NOTE: dilute aqueous paraformaldehyde preparations may fall outside transport regulation — that never carries over to 96% prills.

## SECTION 15 REGULATORY INFORMATION

|                  |                                                                                                                        |
|------------------|------------------------------------------------------------------------------------------------------------------------|
| EU / REACH / CLP | Subject to REACH registration obligations where applicable. No harmonised classification exists under CLP Annex VI for |
|------------------|------------------------------------------------------------------------------------------------------------------------|



# SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·  
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,  
Periyamet, Chennai – 600003, India  
**+91 86087 80096 · +91 81979 47045**  
**admin@supremepetrochemicals.com**

paraformaldehyde — the classification and labelling in Section 2 is a self-classification consistent with the ECHA C&L aggregate for EC 608-494-5 (an ECHA List number; the substance has no EINECS entry).

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Occupational Exposure</b>     | Controlled on the basis of released formaldehyde. EU binding OEL per Directive (EU) 2019/983: 0.3 ppm (0.37 mg/m <sup>3</sup> ) 8h TWA, 0.6 ppm STEL. UK HSE EH40 WEL: 2 ppm (2.5 mg/m <sup>3</sup> ) TWA and STEL. Verify the applicable national limit before assigning workplace controls.                                                                                                                       |
| <b>International Inventories</b> | Listed on TSCA (USA), DSL (Canada), PICCS (Philippines), ENCS (Japan), AICS (Australia), IECSC (China) and KECL (Korea); not listed on EINECS or ELINCS (Thermo Fisher Scientific SDS §15). Confirm current status before import or distribution into any market.                                                                                                                                                   |
| <b>USA</b>                       | Prepared in OSHA HCS / HazCom 2012 aligned 16-section format; considered hazardous under 29 CFR 1910.1200. Clean Water Act hazardous substance, reportable quantity 1,000 lb; CERCLA hazardous substance RQ 1,000 lb. Listed on Massachusetts, New Jersey, Pennsylvania and Rhode Island Right-to-Know lists. Not a California Proposition 65 listed chemical (Thermo Fisher Scientific SDS §15).                   |
| <b>Canada</b>                    | WHMIS hazard classes B4 (flammable solid), D1B, D2B and E (corrosive material) under the Controlled Products Regulations; classify and label under WHMIS 2015/HPR using the Section 2 classification. Bilingual SDS/label and ingredient disclosure may be required (Thermo Fisher Scientific SDS §15).                                                                                                             |
| <b>Mexico</b>                    | Moderate risk, Grade 2 (Thermo Fisher Scientific SDS §15).                                                                                                                                                                                                                                                                                                                                                          |
| <b>India</b>                     | Observe applicable Indian regulations: Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules 1989 (amended); Environment Protection Act; Hazardous Wastes Rules; Petroleum and Explosives Safety Organisation (PESO) requirements where applicable to flammable solids; SPCB/CPCB requirements; applicable workplace safety regulations. Customs classification: ITC(HS) 29126000 — Paraformaldehyde. |
| <b>Other Jurisdictions</b>       | Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and any use restrictions in the destination market.                                                                                                                                                                                                                                                       |



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## 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;<br>Canada WHMIS/HPR — 16-section format                                                                                        |
| Revision Date | 31 July 2026                                                                                                                                                                                 |
| Version       | 1.0 (first issue)                                                                                                                                                                            |
| Disclaimer    | Information is given in good faith and believed accurate at issue. It<br>does not constitute a specification or guarantee; the user is<br>responsible for safe use, handling and compliance. |

### FULL TEXT OF H-STATEMENTS

- H228 — Flammable solid
- H302 — Harmful if swallowed
- H312 — Harmful in contact with skin (cited only where suppliers apply it)
- H315 — Causes skin irritation
- H317 — May cause an allergic skin reaction
- H318 — Causes serious eye damage
- H332 — Harmful if inhaled
- H334 — May cause allergy or asthma symptoms or breathing difficulties if inhaled (cited only where suppliers apply it)
- H335 — May cause respiratory irritation
- H341 — Suspected of causing genetic defects (cited only where suppliers apply read-across from formaldehyde)
- H350 — May cause cancer (cited only where suppliers apply read-across from formaldehyde)
- H351 — Suspected of causing cancer
- H412 — Harmful to aquatic life with long lasting effects (cited only where suppliers apply it)

### KEY SOURCES USED

- ECHA Substance Infocard 100.108.270 and the C&L aggregate for EC (List) number 608-494-5 — identity and self-classification.
- CAMEO Chemicals (NOAA) datasheet 4156, PARAFORMALDEHYDE — flash point, autoignition temperature, specific gravity, melting point, and the hydrochloric acid / bis(chloromethyl) ether



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reactivity warning.

- Thermo Fisher Scientific / Fisher Scientific Safety Data Sheet, Paraformaldehyde, Cat. O4042500 / T353500, Revision 3, 14 April 2016 — GHS classification, Sections 9, 11, 12, 14 and 15 data.
- Balaji Formalin Private Limited, published Technical Data Sheet: Paraformaldehyde — Prills — typical bulk density, open-cup flash point and published commercial pH range for prilled grades.
- Directive (EU) 2019/983 amending Directive 2004/37/EC — binding occupational exposure limit for formaldehyde; UK HSE EH40 Workplace Exposure Limits.
- The written 96% prilled paraformaldehyde specification quoted on enquiry — appearance, aldehyde content, acidity, moisture and pH rows.

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## READER NOTES

- Paraformaldehyde has no harmonised CLP Annex VI entry. Classification in this sheet is a self-classification; supplier sheets legitimately differ, particularly on carcinogenicity category, respiratory sensitisation and aquatic hazard. Always read the SDS supplied with the consignment.
- Values marked 'verify from supplier COA' are grade-dependent and are not guaranteed by this document.
- The single most important handling rule on this sheet: never bring this material, or the formaldehyde it releases, into contact with hydrochloric acid.