

Material Safety Data Sheet (MSDS)

Paraformaldehyde

Revision Date: 26-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Paraformaldehyde
- **Chemical Formula:** $(CH_2O)_n$
- **CAS No:** 30525-89-4
- **Synonyms:** Polyoxymethylene; Formaldehyde polymer
- **Recommended Use:** Used as a disinfectant, fumigant, fixative, and in the production of resins and chemicals.

Section 2: Hazards Identification

- **Classification (GHS):** Flammable Solid; Acute Toxicity Oral; Skin Irritant; Eye Irritant; Carcinogenicity; Specific Target Organ Toxicity – Single Exposure
- **Signal Word:** Danger
- **Hazard Statements:**
 - Flammable solid
 - Toxic if swallowed
 - Causes skin irritation

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- Causes serious eye irritation
- May cause respiratory irritation
- May cause cancer

• **Precautionary Statements:**

- Keep away from heat, sparks, open flames, and hot surfaces
- Avoid breathing dust or vapors
- Wear protective gloves, protective clothing, eye protection, and face protection
- Wash thoroughly after handling
- IF ON SKIN: Wash with plenty of water; if irritation persists, get medical advice
- IF INHALED: Remove person to fresh air and keep comfortable for breathing
- IF IN EYES: Rinse cautiously with water for several minutes

Section 3: Composition / Information on Ingredients

- **Concentration:** 95%

Section 4: First Aid Measures

- **Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration. Seek immediate medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek immediate medical attention.

- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide.
- **Specific Hazards:** Flammable solid. Emits toxic fumes of formaldehyde, carbon monoxide, and carbon dioxide when heated.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid dust formation and inhalation. Use respiratory protection. Ensure adequate ventilation. Wear protective equipment.
- **Environmental Precautions:** Prevent release into drains and waterways.
- **Cleanup Methods:** Sweep up carefully and place in suitable container for disposal. Avoid generating dust. Wash spill area with detergent and water.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of dust or vapors. Avoid contact with skin and eyes. Use in well-ventilated areas. Ground/bond containers and equipment.

- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat, sparks, and flame.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** ACGIH TLV (Formaldehyde): 0.1 ppm TWA, 0.3 ppm STEL
- **Engineering Controls:** Provide adequate ventilation, especially in confined areas.
- **Personal Protective Equipment:** Safety goggles, chemical-resistant gloves, protective clothing. Use respiratory protection if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** White crystalline powder or lumps
- **Odor:** Pungent, formaldehyde-like odor
- **Melting Point:** 120 °C (depolymerizes to formaldehyde)
- **Boiling Point:** Decomposes before boiling
- **Flash Point:** 70 °C (closed cup)
- **Solubility:** Slowly soluble in water, decomposes to formaldehyde; soluble in alcohol and organic solvents.

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions. Slowly depolymerizes to formaldehyde gas.

- **Incompatible Materials:** Strong oxidizing agents, acids, alkalis.
- **Hazardous Decomposition Products:** Formaldehyde, carbon oxides.
- **Conditions to Avoid:** Heat, flames, sparks, moisture.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Toxic if swallowed. Causes severe irritation to eyes, skin, and respiratory tract.
- **Chronic Effects:** Prolonged exposure may cause sensitization and is associated with cancer risk (formaldehyde).
- **Toxicity Data:** Oral LD50 (rat): 592 mg/kg (as formaldehyde).

Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic life.
- **Persistence and Degradability:** Expected to degrade to formaldehyde which is biodegradable.
- **Bioaccumulative Potential:** Low.
- **Mobility in Soil:** Moderate mobility.

Section 13: Disposal Considerations

- Dispose of product/container in accordance with local/regional/national regulations. Do not release into the environment. Incineration preferred.

Section 14: Transport Information

- **UN Number:** UN2213
- **Proper Shipping Name:** Paraformaldehyde
- **Hazard Class:** 4.1
- **Packing Group:** III

Section 15: Regulatory Information

- Listed on major chemical inventories (e.g., TSCA, EINECS).
- Classified as hazardous under GHS for carcinogenicity, acute toxicity, irritation, and flammability.
- Complies with Indian chemical safety regulations.

Section 16: Other Information

Disclaimer: The information above is believed to be accurate but does not purport to be all-inclusive and shall be used only as a guide. Triveni Chemicals shall not be held liable for any damage resulting from handling or from contact with the product.