



MATERIAL SAFETY DATA SHEET (MSDS)

Paraformaldehyde

Version: 1.0

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1. Product Identification

Product Name: Paraformaldehyde

Chemical Formula: $(CH_2O)_n$

CAS Number: 30525-89-4

Recommended Uses:

Raw material for resin production, adhesives, disinfectants, agrochemicals, oilfield chemicals, textile chemicals, pharmaceuticals, and chemical synthesis.

Supplier: Basekim Chemical Production Co. Ltd.

Email: info@basekim.com

Website: <https://basekim.com>

2. Hazard Identification

GHS Classification

- Acute Toxicity (Oral) – Category 4
- Acute Toxicity (Inhalation) – Category 3
- Skin Corrosion/Irritation – Category 2
- Serious Eye Irritation – Category 2A
- Skin Sensitization – Category 1
- Carcinogenicity – Category 1B
- Specific Target Organ Toxicity (Single Exposure) – Category 3 (Respiratory Irritation)

Signal Word: DANGER



Hazard Statements

- Harmful if swallowed.
- Toxic if inhaled.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause an allergic skin reaction.
- May cause respiratory irritation.
- May cause cancer.
- Releases formaldehyde vapors when heated or exposed to moisture.

Precautionary Statements

- Avoid breathing dust or vapors.
- Use only in well-ventilated areas.
- Wear suitable respiratory protection, chemical-resistant gloves, protective clothing, and eye protection.
- Keep container tightly closed.
- Avoid contact with skin and eyes.

3. Composition / Information on Ingredients

Component	Concentration
Paraformaldehyde	93–96%
Water	Balance

4. First Aid Measures

Inhalation

Move the affected person to fresh air immediately. Obtain medical attention if symptoms persist.

Skin Contact

Wash thoroughly with soap and water. Remove contaminated clothing.

Eye Contact



Flush eyes with clean water for at least 15 minutes. Seek immediate medical attention.

Ingestion

Rinse mouth. Do not induce vomiting. Obtain immediate medical attention.

5. Fire Fighting Measures

Suitable Extinguishing Media

- Water spray
- Dry chemical
- Carbon dioxide
- Alcohol-resistant foam

Combustion may produce:

- Formaldehyde
- Carbon monoxide
- Carbon dioxide

Firefighters should wear self-contained breathing apparatus (SCBA).

6. Accidental Release Measures

- Evacuate unnecessary personnel.
- Avoid breathing dust.
- Wear appropriate PPE.
- Sweep carefully to minimize dust generation.
- Collect material into suitable containers.
- Prevent release to drains and waterways.

7. Handling and Storage

- Handle only in well-ventilated areas.
- Avoid inhalation of dust or vapors.



- Keep container tightly closed.
- Store in a cool, dry place.
- Protect from moisture and heat.
- Keep away from oxidizing agents and ignition sources.

8. Exposure Controls / Personal Protection

Engineering Controls

Local exhaust ventilation is recommended.

Eye Protection

Chemical safety goggles.

Hand Protection

Chemical-resistant gloves (nitrile or neoprene).

Respiratory Protection

Approved respirator where dust or formaldehyde vapors may be generated.

Protective Clothing

Chemical-resistant protective clothing.

9. Physical and Chemical Properties

Property	Typical Value
Appearance	White crystalline powder
Odor	Pungent formaldehyde odor
Physical State	Solid
Formaldehyde Content	93–96%
pH (10% Suspension)	4.5–7.0



Property	Typical Value
Bulk Density	0.75–0.85 g/cm ³
Solubility	Soluble in hot water
Flash Point	Not applicable

Typical product properties are consistent with Basekim's published certificate of analysis.

10. Stability and Reactivity

Stable under recommended storage conditions.

Avoid:

- Heat
- Moisture
- Strong oxidizing agents
- Open flames

Thermal decomposition releases formaldehyde gas and carbon oxides.

11. Toxicological Information

- Toxic by inhalation.
- Harmful if swallowed.
- Causes skin and eye irritation.
- May cause skin sensitization.
- Repeated exposure to formaldehyde may affect the respiratory system.
- Formaldehyde is classified as a human carcinogen by major regulatory agencies; paraformaldehyde can release formaldehyde under use conditions.

12. Ecological Information

Avoid uncontrolled release into the environment.

Prevent contamination of surface water, groundwater, and soil.



Dispose of waste according to local regulations.

13. Disposal Considerations

Dispose of product and contaminated packaging through an approved hazardous waste contractor.

Do not discharge into drains or natural waterways.

14. Transport Information

Item	Information
UN Number	UN 2213
Proper Shipping Name	Paraformaldehyde
Hazard Class	4.1
Packing Group	III

Transport according to applicable ADR, IMDG, and IATA regulations.

15. Regulatory Information

Handle in accordance with applicable national and international chemical regulations.

Refer to local occupational exposure limits for formaldehyde and applicable transport and workplace safety regulations.

16. Other Information

This MSDS applies to industrial-grade paraformaldehyde supplied as a white crystalline powder containing approximately **93–96% formaldehyde**.



The information is provided as guidance for safe handling, storage, transport, and disposal. Users are responsible for ensuring compliance with all applicable regulations and determining the suitability of the product for their intended application.

Manufacturer: Basekim Chemical Production Co. Ltd.