



Material Safety Data Sheet

Section 1: Identification

Names: Paraformaldehyde
Synonyms: Formaldehyde, Formalin, Morbucid Acid, Methylene Oxide, Methyl aldehyde

Company: QuantomiX Ltd.
12 Hamada St.
Tamar Science Park
Rehovot, Israel

Section 2: Composition/Information on Ingredients

Appearance: Liquid

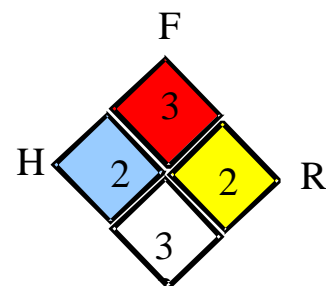
Ingredients	CAS Number	Weight
Formaldehyde	50-00-0	4%
Water	007732-18-5	96%

Formula: HCHO

Section 3: Hazards Identification

Material is an irritant and suspected of carcinogenicity, although there is limited information on toxicological properties or specific health hazards. It has been noted for its toxicity by way of ingestion, and thought to be mutagenic in effect. Corrosive (3 on contact rating). Handle with extreme caution, and maintain minimal contact.

Chemical will be harmful by most means of exposure, and is noted especially for its irritation of the eyes, nose, throat, and lungs. Extreme or prolonged exposure will induce tearing of eye tissue, coughing, difficulty in breathing, nausea, headache, or weakness. Handle with the care required by good laboratory technique.



Health (H) Flammability (F)
Reactivity (R) Contact (Bottom)
in scale 0 (not hazardous) to 4
(extremely hazardous).

Section 4: First Aid Measures

Skin: Wash affected area with copious amounts of water.
Eyes: Flush eyes with water for at least 15 minutes.
Inhalation: Remove to fresh air. Give oxygen or artificial respiration, as needed.
Ingestion: Drink 1 or 2 glasses of water. Call physician. Seek medical treatment if discomfort persists.

Section 5: Fire-Fighting Measures

Extinguishing media: Water, carbon dioxide, dry chemical powder, foam.
Special fire fighting procedures: Firefighters must wear self-contained breathing apparatus and fully protective equipment.
Unusual fire and explosion hazards: Use water spray to disperse vapor.



Section 6: Accidental Release Measures

Wear self-contained breathing apparatus, rubber boots and gloves. Absorb on sand, vermiculite, sawdust and put in a container for future disposal. Wash and ventilate spill site after pickup is complete.

Section 7: Handling and Storage

Store material at room temperature. Keep storage container tightly closed. Avoid contact with skin and eyes. Do not inhale. Wash thoroughly after handling.

Section 8: Exposure Control and Personal Protection

Exposure limits (for formaldehyde): TLV 1.5mg/m³ STEL 3mg/ m³
Respiratory protection: OSHA/MHSA approved respirator if needed.
Ventilation: Mechanical ventilation.
Protective gloves: Rubber.
Eye protection: Safety goggles.
Other protective equipment: Safety shower and eye bath.

Section 9: Physical and Chemical Properties:

Boiling point: > 200°F
Vapor pressure (@ 20°C): 17-20 mm Hg
Vapor density: ~ 1
% Volatile by volume: 98
Evaporation rate (Butyl Acetate = 1): > 1
Specific gravity: 1.08 - 1.13
Melting point: N/A
Solubility in water: Complete
Appearance and odor: Water clear liquid, characteristic odor.
Flash point: >140°F Test Point: CC
Flammable limits: LEL: 7 UEL: 73

Section 10: Stability and Reactivity

Stability: Non-hazardous instability.
Conditions to avoid: Cool temperatures.
Incompatibility: Phenol, strong acids, alkalis.
Hazardous decomposition products: carbon monoxide, carbon dioxide
Hazardous polymerization: Non-hazardous polymerization.
Conditions to avoid: High temperature, free radical sources.

Section 11: Toxicological Information

Oral rat LD50 for formaldehyde	800 mg/kg
Skin rabbit LD50 for formaldehyde	270 mg/kg
Subcutaneous rat LD50 for formaldehyde	420 mg/kg
Inhalation rat LD50 for formaldehyde	590 mg/kg



Carcinogenicity: This substance is listed as an ACGIH suspected human carcinogen and a NTP anticipated human carcinogen.

Reproductive effects: Tests on laboratory animals indicate that formaldehyde may be mutagenic

Effects of overexposure: Headache, nausea, vomiting

Section 12: Ecological Information

Environmental hazards: No data available.

Biodegradability: No data available.

Section 13: Disposal Considerations

Dissolve or mix the material with a combustible. Dispose of insolvent and burn in an EPA licensed chemical incinerator equipped with an afterburner and scrubber. Dispose in compliance with all local, state and Federal regulations.

Section 14: Transport Information

Transport Classification: Not regulated.

Section 15: Regulatory Information

Refer to local regulations.

Section 16: Other Information

No other information.

Date of issue: September, 2005

The above information is based on the present state of our knowledge. It is believed to be correct but is not necessarily all-inclusive and shall be used only as a guide. QuantomiX Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. The above information does not represent any guarantee of the properties of the product.