

## Formaldehyde Calibration Standard MSDS

**Section 1. Chemical Identification:** Aqueous Formaldehyde & Silica Gel.  
**Emergency Contact Details:** PPM Technology Ltd, Cibyn Ind Estate, Caernarfon,  
 Wales LL55 2BD +44 (0) 1286 676 999 info@ppm-technology.com

### Section 2. Hazards Identifications:

Signal Word: Danger, Warning.  
 Hazard Statements: H301,311, 331, 314, 317, 341,350, 370  
 Precautionary Statements: P260, 270, 271, 280, 301, 305,  
 307, 311, 338 and 351.



### Section 3. Composition of Ingredients:

Ingredient	CAS No:	%	Symbol(s)	Risk Phases
Formaldehyde	50-00-0	< 0.05 % w/w	Toxic	23/24/25-34-40-43
Silica Gel	112926-00-8	Grade 62	Harmful	49-52/53

**Section 4. First Aid Measures** Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Seek medical attention. Ingestion: Rinse out mouth with water and give plenty of water to drink. Do not induce vomiting. Seek medical attention immediately. Skin Contact: Flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation persists seek medical advice. Eye Contact: Rinse immediately with plenty of water for at least 15 minutes, lifting the eyelid and avoiding contamination of unaffected eye. Seek medical advice.

**Section 5. Fire Fighting Measures Extinguishing Media:** All types suitable. Use extinguishing media appropriate to surrounding fire conditions. If involved in a fire: Emits noxious fumes under fire conditions. Wear breathing apparatus and protective clothing.

**Section 6. Accidental Release Measures:** Wear appropriate personal protective equipment (PPE). Beware of sharp glass shards if outer tube has been broken. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area & wash spill sight after material pick up is complete.

**Section 7. Handling & Storage:** Handle the calibration standard under good ventilation conditions to avoid breathing in any fumes using suitable PPE. Store in cool, dry area away from sources of ignition.

**Section 8. Exposure Controls:** Handle in well ventilated conditions. Wear suitable PPE and avoid inhalation.

Ingredient	8 hour TWA	Short term
Formaldehyde	2.5 mg/m <sup>3</sup>	2.5 mg/m <sup>3</sup> (15 minutes)
Silica Gel	6 mg/m <sup>3</sup> total inhalable dust	20 mg/m <sup>3</sup> (10 minutes)

### Section 9. Physical & Chemical Properties:

	Appearance	pH	Boiling Point	Relative Density	Solubility
Formaldehyde	Colourless liquid	2.5 - 5.5	96 – 101°C	1.09 – 1.16	Miscible
Silica Gel	White powder	3.5 - 8	N/a	2.2	Insoluble

**Section 10. Stability & Reactivity:** Stable. Avoid naked flames, strong oxidising agents and strong acids.

**Section 11. Toxicological Information:** Can cause severe irritation to the skin, eyes and respiratory tract. It is toxic by inhalation and can cause burns to skin, respiratory tract and throat if ingested.

**Section 12. Ecological Information:** Degrades readily hence no adverse effects to the environment.

**Section 13. Disposal Considerations:** If expired, the formaldehyde will be spent up and standard can be disposed of by landfill at an approved site, however consult local regulations before disposal. Care should be taken when disposing since the outer tube is glass, which could smash causing, cuts. It is recommended the calibration standard be wrapped in tissue/ bubble wrap when disposing. A fresh standard should be disposed by incineration by a licensed waste material processor.

**Section 14. Transport Information:** No special requirements since less than 0.05% Formaldehyde.

**Section 15. Regulatory Information Symbol:** Toxic & Corrosive S-phase(s) 22-36/37/39-45-51

**Section 16. Other Information:** This information is believed to be correct and based on current knowledge.