

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material Name: Formaldehyde 4% solution.
Catalogue Number: C005
Other Names: Paraformaldehyde.
Recommended Use: Methanol free fixative solution.

Supplier Name: ProSciTech
Street Address: 1/11 Carlton Street, Kirwan, Qld. 4817 Australia
Telephone Number: (07) 4773 9444 **Fax Number:** (07) 4773 2244
Emergency Contact: (07) 4773 9444 8:30am – 5:00pm, Monday to Friday

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to criteria of NOHSC.
Hazardous and/or Dangerous Nature: HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Risk Phrases: R40 Limited evidence of a carcinogenic effect.
R43 May cause sensitisation by skin contact.
Safety Phrases: S1/2 Keep locked up and out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37 Wear suitable protective clothing and gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S51 Use only in well ventilated areas.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE: **Chemical Identity:** Formaldehyde.
Common Name(s): Paraformaldehyde.
CAS Number(s): 50-00-0

MIXTURE:

Ingredients	Cas Number(s)	Proportion (%)
Formaldehyde	50-00-0	

SECTION 4 - FIRST AID MEASURES

Swallowed: Drink 1 or 2 glasses of water. Call physician. Seek medical treatment if discomfort persists.
Eye: Flush eyes with water for at least 15 minutes.
Skin: Wash affected area with copious amounts of water.
Inhaled: Remove to fresh air. Give oxygen or artificial respiration, as needed.
First Aid Facilities: Eyebath/eyewash & Safety shower.

Medical Attention & Special Treatment:

Firefighters must wear self-contained breathing apparatus and fully protective equipment.

ADDITIONAL INFORMATION:

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. Handle with extreme caution, and maintain minimal contact.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Water, carbon dioxide, dry chemical powder, foam. Use water spray to disperse vapor.

Hazards from Combustion Products:

Non-hazardous polymerization.

Precautions for Fire Fighters:

Firefighters must wear self-contained breathing apparatus and fully protective equipment.

Hazchem Code: None allocated.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Containment and clean up:

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 & STORAGE

Precautions for Safe Handling:

Avoid contact with skin and eyes. Do not inhale. Wash thoroughly after handling.

Conditions for Safe Storage:

Store material at room temperature. Keep storage container tightly closed.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: TWA (ppm) 1.2
TWA (mg/m³) 2
STEL (ppm) 2.5
STEL (mg/m³) 2

Biological Limit Values: No biological limit allocated.

Engineering Controls:

Use in a well ventilated area only.

Personal Protective Equipment:

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 & CHEMICAL PROPERTIES

Appearance: Clear water liquid.
Odour: Characteristic odour.
pH: Not available.
Vapour pressure (mm of Hg at 20°C): 17-20 mm of Hg @ 20°C.
Vapour density: ~1
Boiling point/range (°C): >94°C.
Freezing/melting point (°C): Not available.
Solubility: Complete in water.
Specific gravity or density: 1.08 – 1.13
Flash Point: >60°C in a closed cup.
Flammable (explosive) limits: Lower: 7
Upper: 73
Ignition temperature: Not available.

Additional Information:

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions of use.
Conditions to avoid: Cool temperatures, High temperature and free radical sources.
Incompatible Materials: Phenol, strong acids and alkalis.
Hazardous Decomposition Non-hazardous polymerization.
Products:
Hazardous Reactions: Not available.

SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure and Health Effects:

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.

Handle with extreme caution, and maintain minimal contact.

Ingestion:

Irritation of the throat, nausea, headache or weakness.

Inhalation:

Extreme or prolonged exposure will induce coughing, difficulty in breathing, nausea, headache, or weakness.

Skin Contact:

Irritation of the skin.

Eye Contact:

Extreme or prolonged exposure will induce tearing of eye tissue.

Human/Animal data: Not available.

Carcinogenicity: *Carcinogenic Group 3 (IARC): The agent (mixture or exposure circumstance) is not classifiable as to its carcinogenicity to humans.*

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Persistence and degradability: Not available.

Mobility: Not available.

Additional Information:

SECTION 13 - DISPOSAL CONSIDERATIONS**Disposal Methods:**

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.

Special Precautions:

SECTION 14 - TRANSPORT INFORMATION

UN Number: Not allocated.

UN Proper Shipping Name: Not allocated.

Class and Subsidiary risk: Not allocated.

Packing Group: Not allocated.

Special Precautions for User: Not available.

Hazchem Code: None allocated.

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: None allocated.

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: August 10

Comments:

The information published in this Material Safety Data Sheet has been compiled from data in various technical publications. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. We reserve the right to revise material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.