

## FIL Formalin

### SAFETY DATA SHEET

Issue Date: 1-Dec-17

#### 1. Product and Company Identification

**Product Name:** FIL FORMALIN

**Proper Shipping Name:** FORMALDEHYDE Solution > 25% with <10% methanol

**Synonyms:** Formalin, Formaldehyde solution

**Recommended Use:** Footrot treatment, preservative, biocide.

**Molecular Formula:** Mixture of CH<sub>2</sub>O and CH<sub>3</sub>OH

**Manufacturer:** FIL is a wholly owned subsidiary of GEA New Zealand Ltd

**Address:** 72 Portside Drive, Mt Maunganui

**Telephone Number:** 07 575 2162

**Fax Number:** 07 575 2161

**Emergency phone No: 24hr** 0508 434 569

**Website:** [www.fil.co.nz](http://www.fil.co.nz)

**Email:** [info@fil.co.nz](mailto:info@fil.co.nz)

#### 2. Hazards Identification

**Dangerous Goods:** Dangerous Goods Class 8, 6, packing group III

**Hazardous Substance (HSNO):**



**DANGER**

**HSNO Classification and**

**Hazard Statements:**

**3.1D (Low Hazard Flammable Liquid)**

H227 Combustible liquid.

**6.1B (Acutely Toxic Substance)**

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H330 Fatal if inhaled.

**6.5B (Contact Sensitiser)**

H317 May cause an allergic skin reaction.

**6.6B (Suspected Mutagen)**

H341 Suspected of causing genetic defects.

**6.7A (Known Carcinogen)**

H350 May cause cancer.

**6.9B (Suspected Toxic to Target Organs or Systems)**

H371 May cause damage to organs.

H373 May cause damage to organs through prolonged or repeated exposure.

**8.2C (Corrosive to Dermal Tissue)**

H314 Causes severe skin burns and eye damage.

**8.3A (Corrosive to Ocular Tissue)**

H318 Causes serious eye damage.

**9.1D (Ecotoxic in the Aquatic Environment)**

H401 Toxic to aquatic life.

**9.2A (Ecotoxic in the Soil Environment)**

H421 Very toxic to the soil environment.

**9.3B (Ecotoxic to Terrestrial Vertebrates)**

H432 Toxic to terrestrial vertebrates.

**Prevention statements:**

P102 Keep out of reach of children.

P103 Read label before use.

P104 Read safety data sheet before use.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from flames and hot surfaces. No smoking.

P260 Do not breathe vapours.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves and eye/face protection.

P281 Use personal protective equipment as required.

P284 Wear respiratory protection. (50 ppm) Chemical cartridge respirator with organic vapor cartridge with full facepiece. Or see section 8 for more options.

**Response statements:**

P101 If medical advice is needed, have product container or label at hand.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. And  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.  
Rinse skin with water.

P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for  
breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact  
lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice.

P309+P311 IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.

P314 Get medical advice/attention if you feel unwell.

P320 Dilute with milk or water in alert patients as a first aid measure may reduce  
corrosive effects at the scene

P321 If skin comes into contact, treat as any burn to prevent allergic contact  
dermatitis. Exposure to formaldehyde or formaldehyde-containing products  
should be minimized.

- P330 Rinse mouth.
- P331 Do NOT induce vomiting.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P361 Remove immediately all contaminated clothing.
- P363 Wash contaminated clothing before reuse.
- P391 Collect spillage.

**Storage statements:**

- P403+P233 Store in a well-ventilated place. Keep container tightly closed and keep cool.
- P405 Store locked up.

### 3. Composition/Information on Ingredients

<b>Appearance:</b>	Clear liquid, pungent odour.	
<b>CAS No:</b>	50-00-0	Formaldehyde (>25%)
	67-56-1	Methanol (<10%)

### 4. First Aid Measures

<b>Ingestion:</b>	Call a doctor. Wash out mouth and give a glass or two of water or milk. Do not induce vomiting.
<b>Eye Contact:</b>	Wash eye with gently running water for at least 20 minutes. Do not rub the eye. Cover with sterile dressing. Seek medical attention immediately.
<b>Skin Contact:</b>	Quickly remove contaminated clothing. Wash skin with large quantities of water. Bath affected areas in warm saline solution.
<b>Inhalation:</b>	Remove the casualty from further contamination.
<b>Notes to Physician:</b>	Treat symptomatically.

### 5. Fire-fighting Measures

<b>Specific Hazards:</b>	May flash or add to fire. Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of decomposition.
<b>Suitable Extinguishing Media:</b>	Water fog (or if unavailable fine water spray), foam, dry chemical powder, carbon dioxide.

### 6. Accidental Release Measures

<b>Spill Cleanup Methods:</b>	For large spills (greater than 20L) evacuate the area and call the fire brigade. Contain and absorb on sand or other inorganic material - do not use sawdust or paper. Place absorbed material in covered containers and dispose as hazardous waste in accordance with local regulations Avoid contamination of natural waterways. Small quantities may be washed to drain with large quantities of water.
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## 7. Handling and Storage

<b>Handling:</b>	<p>Keep away from sources of ignition.</p> <p>Avoid spilling, skin and eye contact. Wear protective clothing.</p> <p>Ventilate well. Avoid breathing vapours. Use approved respirator if air contamination is above acceptable level.</p> <p>After use wash hands before eating, drinking or smoking.</p> <p>Do not handle broken packages unless wearing appropriate personal protective equipment.</p>
<b>Storage:</b>	<p>Don't store with D.G. classes 1, 5, 7, food or food containers.</p> <p>Store in original container, tightly closed, away from foodstuffs and out of reach of children.</p>

## 8. Exposure Control/Personal Protection

<b>Exposure Standards:</b>	TWA 0.016ppm, STEL 2ppm - product is mainly used outside.
<b>Engineering Controls:</b>	Use with adequate ventilation - avoid creation and inhalation of aerosols.
<b>Personal Protection:</b>	Wear full protective clothing. Wear trousers outside boots. PVC gloves & apron. Suitable respiratory and eye protection should also be worn. Safety glasses.
<b>Suitable respiratory protection:</b>	<p>Respirator selection: (50 ppm) Chemical cartridge respirator with organic vapor cartridge with full facepiece; Gas mask with organic vapor canister (chin-style or front- or back-mounted canister); supplied air respirator with full facepiece, helmet, or hood; self-contained breathing apparatus with full facepiece; (100 ppm): Type C supplied-air respirator operated in pressure-demand or other positive pressure or continuous-flow mode; (escape): Gas mask with organic vapor canister (chin-style or front- or back-mounted canister); self-contained breathing apparatus.</p>

## 9. Physical and Chemical Properties

<b>Appearance and Odour:</b>	Clear liquid with a pungent irritating odour.
<b>Solubility in Water (g/l):</b>	Fully miscible
<b>Specific Gravity:</b>	1.09
<b>Boiling Point/Melting Point (C):</b>	101
<b>Vapour Pressure:</b>	55 mm Hg at 37 C
<b>Flashpoint (C):</b>	70
<b>Flammability Limits (%):</b>	Not Available
<b>pH Value:</b>	3.5

## 10. Stability and Reactivity

<b>Stability:</b>	<p>Stable. Strong reducing agent, especially in alkaline solution.</p> <p>Substances to be avoided include strong bases, strong acids, strong oxidising agents, aniline, phenol, isocyanates, anhydrides.</p> <p>Combustible. Light and air sensitive. Polymerizes spontaneously.</p>
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## 11. Toxicological Information

<b>General:</b>	<p>Corrosive and damaging to tissue. Carcinogen, sensitiser. Dangerous if swallowed, inhaled, gets in eyes or absorbed through the skin.</p> <p>May cause damage to kidneys, may cause allergic reactions.</p>
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<b>Ingestion:</b>	Corrosive. Burns in/around the mouth and digestive tract. Oral (rat) LD50 100mg/kg
<b>Eye Contact:</b>	Strong irritant - Corrosive. Intense pain in the eye. Tightly closed. Reddened, swollen or watering excessively. Can't stand light.
<b>Skin Contact:</b>	Irritant – corrosive. Readily absorbed through skin Skin Rabbit LD50 270 mg/kg
<b>Inhalation:</b>	Very destructive of mucous membranes and upper respiratory tract, avoid breathing fumes or creating aerosols or mists. Inhalation Human - TClO 17 mg/m <sup>3</sup> /30m Inhalation Rat LC50 203 mg/m <sup>3</sup>

## 12. Ecotoxicity Information

<u>9.1D</u> Harmful to aquatic life Avoid contamination of waterways	Formaldehyde LC50 Rainbow trout 118 ul/l/96 hr flow-through bioassay.
<u>9.2A</u> Ecotoxic in the Soil Environment	Contain and recover spills in HDPE containers
<u>9.3B</u> Harmful to Terrestrial Vertebrates	Oral (rat) LD50 100mg/kg Secure from ingestion by animals

## 13. Disposal Considerations

<b>Container Disposal:</b>	Dispose of empty containers safely in accordance with local regulations. Triple rinse containers when empty, add rinsings to use solutions. Avoid contamination of any water supply with chemical or empty container. After cleaning, all existing labels should be removed.
<b>Product Disposal:</b>	Dispose of container and unused contents in accordance with and local regulations. Keep records of date, time, quantity & location of discharge, name & address of user.

## 14. Transport Information

<b>UN No:</b>	2209
<b>Dangerous Goods Class:</b>	8 Corrosive
<b>Hazchem Code:</b>	2Z
<b>Packing Group:</b>	III
<b>Proper Shipping Name:</b>	Formaldehyde Solution >25% with <10% Methanol
<b>Segregation:</b>	Don't store with D.G. classes 1, 5, 7, food or food containers
<b>Limited quantities</b>	1L
<b>Schedule 1 Quantity:</b>	250 litres

## 15. NZ Regulatory Information

<b>ERMA Approval Code:</b>	HSR001518
<b>Substance Name:</b>	Formaldehyde, >25% aqueous solution, with < 10% methanol
<b>HSNO Classifications:</b>	3.1D (Low Hazard Flammable Liquid) 6.1B (Acutely Toxic Substance)

6.5B (Contact Sensitiser)  
6.6B (Suspected Mutagen)

- 6.7A (Known Carcinogen)
- 6.9B (Suspected Toxic to Target Organs or Systems)
- 8.2C (Corrosive to Dermal Tissue)
- 8.3A (Corrosive to Ocular Tissue)
- 9.1D (Ecotoxic in the Aquatic Environment)
- 9.2A (Ecotoxic in the Soil Environment)
- 9.3B (Ecotoxic to Terrestrial Vertebrates)

**HSNO Controls:** Trigger quantities for this substance by itself in a Place:

<b>Certified Handler</b>	<i>Any Quantity</i>
Veterinarians holding a current annual retention certificate are deemed to be certified handlers for storing or using this substance other than when it is being stored for resale.	
<b>Compliance Location Certificate:</b>	<i>250 litres</i>
<b>Hazardous Atmosphere Zone:</b>	<i>Not Required</i>
<b>Emergency Plan:</b>	<i>100L</i>
<b>Tracking:</b>	<i>Any Quantity</i>
<b>Warning Sign:</b>	<i>250 litres</i>
<b>Record of application or discharge:</b>	<i>Any quantity</i>

## 16. Other Information

**Issue Date:** 1-Dec-17  
**Review Date:** 1-Dec-22

<b>Definitions:</b>	DG	Dangerous Good	
	LC50	Lethal concentration 50 % kill	
	LD50	Lethal dose 50 % kill	
	LDLO	lowest published lethal dose	
	PEL	Permissible exposure limit	
	STEL	Short term exposure limit	
	TCLo	Lowest published toxic concentration	
	TLM 24	24 Hour median threshold limit	
	TWA	Time weighted average:	<i>The 8-hour time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure</i>