FIL
FIL Been There
SAFETY DATA SHEET

Issue Date: 24-Aug-11

1. Product and Company Identification

Product Name: FIL Been There
Proper Shipping Name: Methanol Solution
Synonyms: Rhodamine B540 Solution in Methanol; Methyl Alcohol
Recommended Use: Herbicide tracer dye
Molecular Formula: C28H31N2O3Cl in solution of CH3OH
Manufacturer: Farmers Industries (New Zealand) Limited
Address: 72 Portside Drive, Mount Maunganui
Telephone Number: 07 575 2162
Fax Number: 07 575 2161
Website: www.fil.co.nz
Email: info@fil.co.nz
Emergency phone No: 24hr 0508 434 569

2. Hazards Identification

Dangerous Goods: 3 (Flammable Liquid); 6.1 (Acutely Toxic Substance), Packing Group II

Hazardous Substance (HSNO):

DANGER

HSNO Classification and Hazard Statements:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1B</td>
<td>Flammable Liquid (High Hazard)</td>
</tr>
<tr>
<td>H225</td>
<td>Highly Flammable Liquid and vapour</td>
</tr>
<tr>
<td>6.1C</td>
<td>Toxic Substance - Oral</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed.</td>
</tr>
<tr>
<td>6.3A</td>
<td>Toxic Substance - Skin Irritant (High Hazard)</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>6.4A</td>
<td>Toxic Substance - Eye Irritant (High Hazard)</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>6.8B</td>
<td>Toxic Substance - Suspected reproductive toxicant</td>
</tr>
<tr>
<td>H361</td>
<td>Suspected of damaging fertility or the unborn child</td>
</tr>
<tr>
<td>6.9A</td>
<td>Toxic to human target organs or systems - Inhalation</td>
</tr>
<tr>
<td>H370</td>
<td>Causes damage to organs</td>
</tr>
<tr>
<td>9.1C</td>
<td>Harmful in the aquatic environment</td>
</tr>
</tbody>
</table>
Harmful to aquatic life with long lasting effects.

**9.3C Ecotoxic to Terrestrial Vertebrates.**
Harmful to terrestrial vertebrates.

**Prevention Statements:**

P103 Read Label before use.
P104 Read Safety Data Sheet before use.
P210 Keep away from heat. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof ventilating equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapors.
P264 Wash hands thoroughly after handling.
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.

**Response Statements:**

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing.
Rinse skin with water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical attention.
P337+P313 If eye irritation persists: Get medical attention.
P362 Take off contaminated clothing and wash before reuse.

**Storage Statements:**

P403+P235 Store in a well ventilated place. Keep cool.

### 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Red violet liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS No:</strong></td>
<td></td>
</tr>
<tr>
<td>67-56-1</td>
<td>Methanol (Methyl Alcohol) (&gt; 50%)</td>
</tr>
<tr>
<td>81-88-9</td>
<td>Rhodamine B/Cl. Basic violet 10 (&gt; 20%)</td>
</tr>
</tbody>
</table>
### 4. First Aid Measures

**Ingestion:** Rinse mouth then give a glass or two of water or milk. DO NOT cause vomiting unless medical attention is delayed by 30 minutes. (Take care to avoid patient inhaling stomach contents). If breathing stops, start mouth to nose resuscitation. Seek medical attention.

**Eye Contact:** Wash eye with gently running water for at least 20 minutes. Do not rub the eye. Lightly cover with a sterile dressing. Seek medical attention if irritation persists.

**Skin Contact:** Quickly remove contaminated clothing. Wash skin with large quantities of soap and water. Seek medical attention if irritation persists.

**Inhalation:** Remove the casualty from further contamination. If symptoms are severe or persist seek medical attention.

**Notes to Physician:** Treat symptomatically.

### 5. Fire-fighting Measures

**Specific Hazards:** Flammable. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of decomposition.

**Suitable Extinguishing Media:** Water fog (or if unavailable fine water spray), foam, dry chemical powder.

### 6. Accidental Release Measures

**Spill Cleanup Methods:** Contain and recover. Wear eye protection, gloves(neoprene or nitrile) and aprons. Use of an approved filter mask may be necessary. Absorb with sawdust. Avoid contamination of waterways. Follow instructions on FIL Emergency Response Plan: Chemical Spill Switch off electrical equipment until vapour fire hazard removed.

### 7. Handling and Storage

**Handling:** Flammable. Toxic.

Wear suitable protective clothing, gloves(neoprene or nitrile) and personal protection equipment for eyes and face when handling concentrates. Wash face and hands thoroughly after use.

**Storage:** Do not store with D.G classes 1, 5, food or food containers.

Store in original container, tightly closed, away from foodstuffs and children.

### 8. Exposure Control/Personal Protection

**Exposure Standards:**

- Methanol: TWA 200 ppm/266mg.m⁻³
- Methanol: STEL 250 ppm, skin
Engineering Controls: Use with adequate ventilation, product normally used outside

Personal Protection: Wear suitable protective clothing, gloves and personal protection equipment for eyes and face when handling concentrates.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odour</td>
<td>Red violet liquid</td>
</tr>
<tr>
<td>Solubility in Water (g/l)</td>
<td>Completely miscible</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.98</td>
</tr>
<tr>
<td>Boiling Point/Melting Point (°C)</td>
<td>BP&gt;90 / MP -53</td>
</tr>
<tr>
<td>Vapour Pressure: Methanol</td>
<td>128 mm Hg @20 deg C</td>
</tr>
<tr>
<td>Vapour Density: Methanol</td>
<td>1.1 X Air</td>
</tr>
<tr>
<td>Flashpoint (°C)</td>
<td>24</td>
</tr>
<tr>
<td>Flammability Limits (%)</td>
<td>20-100</td>
</tr>
<tr>
<td>pH Value</td>
<td>8</td>
</tr>
<tr>
<td>Autoignition temperature (°C)</td>
<td>464</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Stability: Stable under normal temperatures and pressures

Conditions to Avoid: High temperatures, incompatible materials, ignition sources.

Incompatibilities: May react violently with acids, acid chlorides, acid anhydrides, oxidising agents, reducing agents, and alkali metals. Protect from moisture. Highly flammable.

Hazardous Decomposition: Carbon monoxide, carbon dioxide, formaldehyde.

Products:

11. Toxicological Information

General: May be harmful if swallowed. Causes eye and skin irritation. Avoid skin contact or inhalation. May cause an allergic reaction in sensitive individuals.
May cause liver damage

**Ingestion:**
Ingestion may result in nausea, vomiting, convulsions, visual disturbances (blindness), loss of consciousness, possible death.

Methanol: ORAL-HUMAN LD₅₀ 428 mg kg⁻¹

**Eye Contact:**
Eye irritant. May cause watering of the eye or blurred vision.

Those with existing eye diseases may be at increased risk from exposure.

**Skin Contact:**
Moderate irritation after prolonged contact, can cause sensitisation.

**Inhalation:**
Potentially toxic, irritant, intoxicant - avoid creating aerosols or mists.

Methanol: Inhalation-RAT LC₅₀ 83 mg/L, LC₅₀ Cat inhalation 85.41 mg/L/4.5 hr

**12. Ecotoxicity Information**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.3C</td>
<td>Ecotoxic to Terrestrial Vertebrates (Medium Hazard)</td>
</tr>
</tbody>
</table>

Methanol: ORAL-RAT LD₅₀ 5628 mg kg⁻¹

Rhodamine B: ORAL-RAT LD₅₀ 500 mg kg⁻¹

**13. Disposal Considerations**

**Container Disposal:**
Dispose of empty containers safely in accordance with local regulations. Avoid contamination of any water supply with product or empty container. Triple rinse containers when empty. Add rinsings to use solutions.

**Product Disposal:**
Dispose of product safely. Avoid contamination of any water supply with product or empty container.

**14. Transport Information**

<table>
<thead>
<tr>
<th>UN No.</th>
<th>Dangerous Goods Class</th>
<th>Hazchem Code</th>
<th>Packing Group</th>
<th>Proper Shipping Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1230</td>
<td>3 (Flammable Liquid); Subsidiary 6.1 (Toxic Substance)</td>
<td>2WE</td>
<td>II</td>
<td>Methanol Solution</td>
</tr>
</tbody>
</table>

**Segregation:**
Do not store with DG classes 1, 5, food or food containers.

**Limited Quantities:**
1L

**15. NZ Regulatory Information**

<table>
<thead>
<tr>
<th>ERMA Approval Code</th>
<th>Group standard</th>
<th>HSNO Classifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSR006429</td>
<td>Additives, Intermediates, Process Chemicals, Raw Materials (Subsidiary Hazard)</td>
<td>3.1B Flammable Liquid (High Hazard), 6.1C Toxic Substance - Oral</td>
</tr>
</tbody>
</table>
6.3A  Toxic Substance - Skin irritant (High Hazard)
6.4A  Toxic Substance - Eye Irritant (High Hazard)
6.5B  Toxic Substance - Contact Sensitiser
6.8B  Toxic Substance - Suspected reproductive toxicant
6.9A  Toxic to human target organs or systems - Inhalation
9.1C  Harmful in the aquatic environment
9.3C  Ecotoxic to Terrestrial Vertebrates (Medium Hazard)

HSNO Controls:

Trigger quantities for this substance by itself in a Place:

Approved Handler Test Certificate: 250 litres (when in containers greater than 5 L)
or 500 L (when in containers up to and including 5 L)
Hazardous Substance Location: 50 litres
Location Test Certificate: 50 litres
Hazardous Atmosphere Zone: 5 litres
Fire Extinguishers: 250 litres
Emergency Plan: 100 litres
Tracking: Not required
Warning Sign: 250 litres
Disposal: Not required

16. Other Information

Issue Date: 24-Aug-11
Review Date: 22-Aug-16

Definitions:

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
TLM24  24 hour median threshold limit
TWA  Time weighted average  

The 8-hour time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure