**Section 1. Identification of the material and the supplier**

- **Product:** GilsoFlex™
- **Product Code:** GF - xx
- **Product Use:** Roof Sealer and Paint
- **New Zealand Supplier:** Biosymph Limited
- **Address:** 2287 Kakaramea Road RD10 Whatawhata 3290 Hamilton
- **Telephone:** +64 (0)7 829 8606 or +64 (0)22 607 6400 (mob)
- **eMail:** admin@biosymph.co.nz
- **Emergency Telephone:** 0800 76 47 66 (National Poisons Centre)
- **Date of MSDS Revision:** 23 January 2018 version 4

**Section 2. Hazards Identification**

This substance is not classified as a dangerous good according to NZS5433: 2007

**Pictograms**

**NONE REQUIRED**

<table>
<thead>
<tr>
<th>HSNO Classification</th>
<th>Hazard Code</th>
<th>Hazard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1E</td>
<td>H333</td>
<td>May be harmful if inhaled</td>
</tr>
<tr>
<td>6.3B</td>
<td>H316</td>
<td>Causes mild skin irritation</td>
</tr>
<tr>
<td>9.1B</td>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

**Prevention Code**

- **Prevention Statement**
  - P102: Keep out of reach of children
  - P103: Read label or visit our website [www.biosymph.co.nz](http://www.biosymph.co.nz) before use
  - P210: Keep away from heat and flames
  - P233: Keep container tightly closed
  - P241: Use explosion-proof electrical lighting
  - P242: Use only non-sparking tools
  - P243: Take precautionary measures against static discharge
  - P273: Avoid release into the aquatic environment
  - P280: Wear protective gloves / eye protection

**Response Code**

- **Response Statement**
  - P303+361+353: IF ON SKIN: Remove all contaminated clothing immediately. Rinse skin with water
  - P370+378: In case of fire: Use foam, CO2 or dry powder
  - P304+312: IF INHALED: Call the POISON CENTRE or a doctor
  - P332+313: If skin irritation occurs: Get medical advice
  - P391: Collect spillage

**Storage Code**

- **Storage Statement**
  - P403+233: Store in a well-ventilated place. Keep container tightly closed.

**Disposal Code**

- **Disposal Statement**
  - P501: Crush or puncture container to prevent further use if not recycled. Dispose of at an approved waste disposal site
Section 3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Wt%</th>
<th>CAS NUMBER.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixed petroleum solvents emulsion</td>
<td>40-80</td>
<td>Not available</td>
</tr>
<tr>
<td>Drying oils</td>
<td>10-20</td>
<td>Not available</td>
</tr>
<tr>
<td>Cut-back bitumen</td>
<td>5-15</td>
<td>8052-42-4</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

Recommended on site emergency facilities: Eye wash station

Routes of Exposure:

If in Eyes
Remove excess contamination around eyes with olive oil. Wash eyes with a gentle stream of water to dislodge solid particles. Seek medical attention.

If on Skin
Remove contaminated clothing. Physically scrape off excess and use olive oil to dissolve residues. Finally wash skin or hair with soap and water.

If Swallowed
DO NOT INDUCE VOMITING. Seek immediate medical attention.

If Inhaled
Remove patient from contaminated area to fresh air. If patient does not recover normal breathing and is distressed, seek medical advice.

Section 5. Fire Fighting Measures

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>NON-flammable liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazards from decomposition products</td>
<td>Carbon dioxide, nitrogen oxides, unburnt hydrocarbons</td>
</tr>
<tr>
<td>Suitable Extinguishing media</td>
<td>Carbon dioxide, dry chemical or foam</td>
</tr>
<tr>
<td>Precautions for firefighters and special protective clothing</td>
<td>Product will float on water. Prevent run-off to waterways.</td>
</tr>
<tr>
<td>HAZCHEM CODE</td>
<td>-</td>
</tr>
</tbody>
</table>

Section 6. Accidental Release Measures

Land Spill or Leaks
Small leaks or spills may be mixed with dry zeolite absorbent (kitty litter), sand or soil and swept up for domestic rubbish disposal.
Large spills, evacuate all unnecessary personnel and eliminate any sources of ignition.
Use non-sparking equipment to dyke the spill with appropriate spill media (zolite, sand or soil) and shovel into recovery drums.
If the spill enters any waterway, sewer or stormwater, notify the Environmental Response unit at the nearest council offices.
Section 7. Handling and Storage

Approved Handlers: Not required.

Precautions for safe handling: Open containers cautiously as they may be under pressure. DO NOT store in confined spaces. Build-up of vapours must be prevented. Avoid inhalation. Do not use near welding or other sources of ignition.

Conditions for safe storage: Store in a cool, dry, well-ventilated area away from food, animal feedstuffs, strong acids, alkanes and oxidizers. Protect from physical damage. Regularly inspect bulk containers for leaks or cracks. Ensure fire extinguishers are properly located and serviced. See NZ EPA “Site Storage Conditions for Class 3.1 flammable liquids”.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS #</th>
<th>TWA ppm</th>
<th>TWA mg/m³</th>
<th>STEL ppm</th>
<th>STEL mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15-Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls: Always provide good ventilation to keep vapours below the lower explosion limit.

Personal Protective Equipment: Always wear suitable protective gloves (nitrile) and eye protection. In confined spaces, an organic vapour respiratory cartridge mask must be used.

General: When large quantities are used, a plastic apron and rubber boots are recommended.

Section 9 Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>dark brown to black liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>petroleum bitumen odour</td>
</tr>
<tr>
<td>pH</td>
<td>not applicable</td>
</tr>
<tr>
<td>Solubility</td>
<td>soluble in organic solvents; insoluble in water</td>
</tr>
<tr>
<td>Relative Vapour Density</td>
<td>not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>initial 120°C</td>
</tr>
<tr>
<td>Ignition Point</td>
<td>not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>approx. 200°C</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>less than 1.0</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>2.13 kPa</td>
</tr>
<tr>
<td>% Volatiles</td>
<td>20%</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>not available</td>
</tr>
</tbody>
</table>
Section 10. Stability and Reactivity

Chemical Stability
Stable under normal conditions. Does not polymerise

Conditions to Avoid
Heat, direct sunlight, open flames

Incompatibility
Strong oxidizers, acids, alkalis

Hazardous Decomposition Products
Fumes of nitrogen and carbon oxides and acrid unburnt hydrocarbons

Section 11. Toxicological Information

Acute Oral Toxicity
LD₅₀ Rat (oral) 2000-5000 mg / kg bw

Acute Dermal Toxicity
LD₅₀ Rat (dermal) 2000-5000 mg / kg bw

Chronic Effects
Inhalation of vapours will irritate respiratory system. Prolonged skin exposure will cause redness followed by dermatitis.

Section 12. Ecotoxicological Information

HSNO Classifications:
Class 9.1B harmful to aquatic organisms

Environmental Precautions:
Prevent from entering waterways or contaminating groundwater

Ecotoxicity Data:
Not available

Environmental Fate:
Persistent and non-biodegradable

Environmental Exposure Limits:
Not set

Section 13. Disposal Considerations

Dispose of in approved hazardous landfills or by incineration.

Section 14. Transport Information

Classified as a Non-Dangerous Good for transport.

Section 15. Regulatory Information

ERMA Approval Code:
HSR002662

HSNO Controls:
Tracking: Not required
Approved Handlers: Not required
Location Test Certificate: 500 L in containers ≥ 5L; 1500 L in containers <5L; 250 L open

Hazchem signage: 1000 L
Emergency Response Plan: 10,000 L
Section 16 Other Information

1. This product may not be used as a marine anti-fouling paint, for pruning wounds on trees or shrubs or in the commercial treatment of timber.


Abbreviations:
- CAS No: Chemical Abstracts Number
- EPA: Environmental Protection Authority
- HSNO: Hazardous Substances and New Organisms
- NZIoC: New Zealand Inventory of Chemicals
- STEL: Short Term Exposure Limit
- TWA: Time Weighted Average
- WES: Workplace Exposure Standard

References:
- Supplier Material Safety Data Sheets
- EPA website: www.epa.govt.nz

Disclaimer:

This document has been compiled by Biosymph Limited and serves as the manufacturer's Material Safety Data Sheet (‘MSDS’). It is based on information concerning the product which has been provided from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer’s knowledge. The document represents the commitment to the company’s responsibilities surrounding the supply of this product, undertaken in good faith. While Biosymph Ltd has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Biosymph Ltd accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS. The information herein is given in good faith, but no warranty, express or implied is made.

This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority.

Please consult the relevant legislation and regulations governing the use and storage of this type of product.

For further information, please contact Biosymph Ltd.

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Review Date: 23 January 2023

END OF MATERIAL SAFETY DATA SHEET