



## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

|                                  |   |
|----------------------------------|---|
| Product Name                     | Fibre Glass, Continuous Filament  |
| Product Code                     | 01014   |
| Use of the Substance/Preparation | Industrial use  |
| Supplier                         | Liquid Roofing Systems<br>Prees Green<br>Nr. Whitchurch<br>Shropshire<br>SY13 2BN |
| Telephone                        | 01948 841 877   |
| Fax                              | 01948 841 854   |

## 2. HAZARDS IDENTIFICATION

|                        |  |
|------------------------|--|
| Most Important Hazards | May cause eye or skin irritation with susceptible persons.<br>May cause irritation of respiratory tract. |
|------------------------|--|

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

|                                    |   |
|------------------------------------|---|
| Chemical Nature of the Preparation | Glass fibre with binder   |
| Synonyms                           | <b>Chopped strands:</b> ChopVantage®, ChopVantage® HP, MaxiChop™, DeltaChop®, Wet Chopped Strand<br><b>Coated Yarn:</b> Hercuflex® Strand HF, Hercuflex® Strand HFO<br><b>Direct Draw:</b> Hybon®, TufRov™, Innofiber® NTY<br><b>Yarn:</b> Fiberglass Yarn, Hybon® RCY, L.E.X.® Yarn, TEXO® Yarn, Innofiber® DCS<br><b>Mat:</b> Chopped Strands Mat, PPG Mat, AZDEL Mat, MatVantage® II, TEXO® HTM<br><b>Roving:</b> Continuous Roving, Hybon® Roving for Spray-Up, Hybon® Woven Roving, Roving for Spray-Up, TufRov™, Woven Roving, String Binder Roving for Preform |

| Components  | Weight % |
|---|----------|
| Glass fibre (E-Glass continuous filament)                         | >95%     |
| Organic surface binder/sizing                                     | <2%      |
| Some Fibreglass products contain Textured Polyester Filament Yarn | <6%      |

## 4. FIRST AID MEASURES

|                |   |
|----------------|---|
| General Advice | Immediate medical attention is not required.              |
| Inhalation     | Move to fresh air. If symptoms persist, call a physician. |





|                     |   |
|---------------------|---|
| <b>Skin Contact</b> | Wash off with plenty of water. Use a mild soap if available. If skin irritation persists, call a physician.   |
| <b>Eye Contact</b>  | Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.                       |
| <b>Ingestion</b>    | Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Never give anything by mouth to an unconscious person. Consult a physician if necessary. |

**5. FIREFIGHTING MEASURES**

|  |  |
|--|--|
| <b>Suitable Extinguishing Media</b>                                  | Water, carbon dioxide (CO2), foam, dry chemical.   |
| <b>Extinguishing Media which must not be Used for Safety Reasons</b> | None.  |
| <b>Hazardous Decomposition Products</b>                              | Carbon oxides.   |
| <b>Special Protective Equipment for Firefighters</b>                 | Not required.  |
| <b>Further Information</b>   | Fiberglass itself will not burn. The surface coating can burn even in the absence of atmospheric oxygen. This may lead to the formation of hazardous decomposition products. |

**6. ACCIDENTAL RELEASE MEASURES**

|                                  |   |
|----------------------------------|---|
| <b>Personal Precautions</b>      | Ensure adequate ventilation.  |
| <b>Environmental Precautions</b> | No special environmental precautions required.  |
| <b>Methods for Cleaning Up</b>   | Pick-up and arrange for disposal in a manner that avoids creating excessive dust. After cleaning, flush away traces with water. |

**7. HANDLING AND STORAGE**

|  |   |
|--|---|
| <b>HANDLING</b>                              |   |
| <b>Technical Measures/Precautions</b>        | Take measures to prevent the build-up of electrostatic charge. Fiberglass needled mat products may contain broken steel needles, which may cause physical injury. |
| <b>Safe Handling Advice</b>                  | Avoid dust formation.   |
| <b>STORAGE</b>                               |   |
| <b>Technical Measures/Storage Conditions</b> | Store at room temperature and relative humidity less than 65% (+/- 10%) for optimum performance. Keep in a dry place.   |
| <b>Incompatible Products</b>                 | None.   |

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Occupational Exposure Controls





|  |  |
|--|--|
| <b>Exposure Limit Values</b>                   | <p><b>OSHA</b> 15mg/m<sup>3</sup> (total dust.), 5mg/m<sup>3</sup> (respirable dust)</p> <p><b>ACGIH</b> 5 mg/m<sup>3</sup> TWA (inhalable fraction), 1fibre/cm<sup>3</sup> (respirable fraction)</p> <p><b>UK, IRL OEL</b> 5mg/m<sup>3</sup> TWA (inhalable dust), 2fibres/cm<sup>3</sup> (respirable fraction)</p> |
| <b>Engineering Measures to Reduce Exposure</b> | Ensure adequate ventilation, especially in confined areas.   |
| <b>Personal Protection Equipment</b>           |  |
| <b>Respiratory Protection</b>                  | Effective dust mask. If use or application generates dust, use an appropriate respirator with a particulate filter.  |
| <b>Hand Protection</b>                         | Rubber or plastic gloves. Break through time: no data available.   |
| <b>Eye Protection</b>                          | Safety glasses with side-shields.  |
| <b>Skin and Body Protection</b>                | Lightweight protective clothing.   |
| <b>Hygiene Measures</b>                        | General industrial hygiene practice. Regular cleaning of equipment, work area and clothing.<br>When using do not eat or drink.   |
| <b>Environmental Exposure Controls</b>         | No special environmental precautions required.   |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                             |
|---|-----------------------------|
| <b>General Information</b>                                    |                             |
| <b>Form</b>   | Solid / Fibres              |
| <b>Colour</b>   | White - Light yellow        |
| <b>Odour</b>  | None                        |
| <b>Important Health, Safety and Environmental Information</b> |                             |
| <b>pH</b>   | N/A                         |
| <b>Boiling Point/Range</b>                                    | N/A                         |
| <b>Flash Point</b>  | N/A (Needled Mat > 93°C)    |
| <b>Explosion Limits</b>                                       | No data available           |
| <b>Vapour Pressure</b>  | N/A                         |
| <b>Vapor Density</b>  | N/A                         |
| <b>Relative Density</b>                                       | 2.6 - 2.7                   |
| <b>Solubility</b>   | Water solubility: insoluble |
| <b>Other Information</b>                                      |                             |
| <b>Melting Point/Range</b>                                    | No data available           |

## 10. STABILITY AND REACTIVITY

|                            |  |
|----------------------------|--|
| <b>Stability</b>           | Stable at normal conditions. Hazardous polymerisation does not occur.  |
| <b>Conditions to Avoid</b> | Do not expose to temperatures above 800 °C. The product can give off smoke at approximately 200 - 260°C due to the decomposition of the surface coating. |
| <b>Materials to Avoid</b>  | None.  |





|   |   |
|---|---|
| <b>Hazardous Decomposition Products</b> | Carbon oxides and other hazardous combustion products from the surface coating. |
|---|---|

**11. TOXICOLOGICAL INFORMATION**

|                            |   |
|----------------------------|---|
| <b>Acute Toxicity</b>      | No data available   |
| <b>Local Effects</b>       | May cause eye/skin irritation. May cause irritation of respiratory tract.   |
| <b>Long Term Toxicity</b>  | Health injuries are not known or expected under normal use (PPG Glass fibres).  |
| <b>Specific Effects</b>    | Not carcinogenic (NTP, IARC, OSHA).<br>Glass fibre is not on any EU list as a carcinogen.   |
| <b>Further Information</b> | There are no known health effects from the long term use or contact with nonrespirable continuous filament fibres. As manufactured, PPG glass fibres are nonrespirable. Nonrespirable fibres cannot reach the deep lung because they have a diameter of greater than 3.5 micrometers. Fibres of this diameter cannot penetrate the narrow, bending passages of the human respiratory tract to reach the lower regions of the lung, and thus, have no possibility of causing serious pulmonary damage. Instead, they deposit on the surface of the upper respiratory tract, nose or pharynx. These fibres are then cleared through normal physiological mechanisms. Chopped, crushed, or severely mechanically processed fibre glass may contain small amounts of respirable fibre-like material that could reach the deep lung. The measured airborne concentration of respirable fiber-like material in areas where severe processing of fiberglass occurred has been shown to be extremely low and well below the TLV. Repeated or prolonged exposure to respirable glass fibres may cause fibrosis, lung cancer and mesothelioma. PPG glass fibres in the form supplied, do not contain respirable fibres. |

**12. ECOLOGICAL INFORMATION**

|                                  |                    |
|----------------------------------|--------------------|
| <b>Mobility</b>                  | Insoluble.         |
| <b>Persistence/Degradability</b> | No data available. |
| <b>Bioaccumulation</b>           | No data available. |
| <b>Ecotoxicity</b>               | No data available. |

**13. DISPOSAL CONSIDERATIONS**

|  |   |
|--|---|
| <b>Waste from Residues/Unused Products</b> | Can be landfilled, when in compliance with local regulations. |
|--|---|





|                               |  |
|-------------------------------|--|
| <b>Contaminated Packaging</b> | Empty containers should be taken for local recycling, recovery or waste disposal.  |
| <b>Further Information</b>    | According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. |

**14. TRANSPORT INFORMATION**

|                              |  |
|------------------------------|--|
| <b>Transport Information</b> | Not classified as dangerous in the meaning of transport regulations. |
|------------------------------|--|

**15. REGULATORY INFORMATION**

|                               |   |
|-------------------------------|---|
| <b>Regulatory Information</b> | Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC. |
|-------------------------------|---|

**16. OTHER INFORMATION**

|                        |                        |
|------------------------|------------------------|
| <b>Recommended Use</b> | Industrial Application |
|------------------------|------------------------|

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Rev: Jan 2019

Paul Jones – Technical Support

Tom Shone – Commercial Director

