

MATERIAL SAFETY DATA SHEET

GS TPO

**TPO
MEMBRANE**



GreenShield

Heatshielding & Waterproofing Your Roof

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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| MATERIAL NAME | GreenShield (GS) TPO Membrane (SP, SP FR, RF, RF FR, RF BG S, RF BG S RF, RF BG D); Non-Reinforced Flashing, TPO termination profile, accessories constructed from membrane including Coverstrip, Corners, Pipe Seals, etc. |
| SYNONYMS | Membrane, Tapes and Accessories |
| PRODUCT USE | Waterproofing and Heat Shielding Membrane |
| MANUFACTURER INFORMATION | Zylog Elastocomp E-20/2, MIDC Malegaon, Sinnar, Nashik – 422113, Maharashtra, INDIA Emergency Phone #: +91 255-1230149 |

SECTION 2: HAZARD IDENTIFICATION

As defined in the OSHA Hazard Communication Standard, 29 CFR 1910.1200, the products listed above are considered articles and do not require an SDS. In addition, articles are not included in the scope of the Globally Harmonization System (GHS). As such, the GHS labeling elements are not included on this SDS. All components listed for this product are bound within the product. When handled as intended and under normal conditions of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk. Although these products are not subject to the OSHA Standard or GHS labeling elements, ZYLOG would like to disclose as much health and safety information as possible to ensure that this product is handled and used properly. This SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and be made available for employees and other users of this product. In addition, the recommendations for handling and use of these products should be included in worker training programs.

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| Primary Route of Exposure | NONE | |
| Signs & Systems of Exposure | Eyes | Not Applicable |
| | Skin | Minimize contact particularly at high ambient temperatures |
| | Ingestion | Not Applicable |
| | Inhalation | Not Applicable |
| | Acute Health Hazard | Not Applicable |
| | Chronic Health Hazard | Not Applicable |
| | Carcinogenicity | Not Applicable |

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| CAS | COMPONENT NAME | PERCENTAGE |
|--------------|------------------------------|------------|
| TRADE SECRET | PROPYLENE ETHYLENE COPOLYMER | >50 |
| TRADE SECRET | FLAME RETARDANTS | 0 - >15 |
| TRADE SECRET | STABILIZERS | >5 |

**SECTION 4: FIRST AID MEASURES**

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| Inhalation | Inhalation of vapour from this product during heat welding may cause respiratory tract irritation |
| Skin | Exposure to hot surfaces during heat welding may cause thermal burns |
| Eyes | Vapour from this product during heat welding may irritate eyes. |
| Ingestion | Cannot be ingested under normal circumstances |
| Note to Physicians | Not Applicable |

SECTION 5: FIRE FIGHTING MEASURES

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| Suitable Extinguishing Media | Use dry chemical, carbon dioxide, or water spray. |
| Unsuitable Extinguishing Media | None reported. |
| Special Hazards Arising from the Chemical | Oil bleeds from material when burning. |
| Hazardous Combustion Products | Toxic gases or vapors, such as carbon monoxide and other organic compounds may be released in a fire. |
| Advice for fire-fighters | Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure-demand or positive-pressure mode. |
| Fire Fighting Measures | Standard procedures for Class A fires. Use self-contained breathing apparatus (SCBA) and protective clothing for structural fire fighting. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

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| Personal Precautions, Protective Equipment and Emergency Procedures | Wear personal protective clothing and equipment, see Section 8. |
| Methods and Materials for Containment and Cleaning Up | Sweep up and dispose in accordance with all applicable regulations. |
| Environmental Precautions | Provide adequate ventilation during heat welding. |

SECTION 7: HANDLING & STORAGE

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| Precautions for Safe Handling | None Known. Suggest wearing protective gloves. Wash hands thoroughly after handling. KEEP OUT OF REACH OF CHILDREN |
| Conditions for Safe Storage | This product may react with strong oxidizing agents and should not be stored near such materials. Best to store rolls in areas protected by automatic sprinklers. Store product below 60oC (140oF) to prevent roll sticking at installation. |

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

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| Component Exposure Limits | No known exposure limits. |
| Biological limit value | There are no biological limit values for any of this product's components. |
| Engineering Controls | Provide adequate ventilation. Ensure compliance with applicable exposure limits. |
| Individual Protection Measures, such as Personal Protective Equipment Eye/face protection | Sunglasses which filter out ultraviolet light are strongly recommended since the white surface is highly reflective to sunlight. |
| Skin Protection | Work boots and work clothing recommended. |
| Respiratory Protection | A respiratory protection program that meets OSHA 1910.134, ANSI Z88.2 and / or CSA Z94.4-93 requirements must be followed whenever workplace conditions warrant use of a respirator. |
| Glove Recommendations | Wear protective gloves. |

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

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| APPEARANCE & ODOR | Thin sheet in roll form, various colors. Negligible odor. | | |
| FLASH POINT | No Data | LOWER EXPLOSIVE LIMIT | No Data |
| METHOD USED: | No Data | UPPER EXPLOSIVE LIMIT: | No Data |
| EVAPORATION RATE: | No Data | BOILING POINT: | No Data |
| pH (undiluted product): | No Data | MELTING POINT: | 350° F |
| SOLUBILITY IN WATER: | Insoluble | SPECIFIC GRAVITY: | 0.9 – 1.2 |
| VAPOR DENSITY: | No Data | PERCENT VOLATILE: | No Data |
| VAPOR PRESSURE: | No Data | MOLECULAR WEIGHT: | No Data |
| VOC WITH WATER (LBS/GAL): | No Data | WITHOUT WATER (LBS/GAL): | No Data |

SECTION 10: STABILITY & REACTIVITY

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| Reactivity | No reactivity hazard is expected |
| Chemical Stability | Stable under normal conditions of use. |
| Possibility of Hazardous Reactions | Hazardous polymerization will not occur. |
| Conditions to Avoid | Keep away from heat, sparks or open flame |
| Incompatible Materials | None known |
| Hazardous decomposition products | Gases or vapors such as carbon monoxide, carbon dioxide, or oxides of nitrogen, and other organic compounds may be released in a fire. |



SECTION 11: TOXICOLOGICAL INFORMATION

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| Inhalation, Ingestion | Unlikely under normal conditions |
| Skin, Eye Contact | Unlikely under normal conditions |
| Acute and Chronic Toxicity | No data available |
| Immediate & Delayed Effects | No immediate and delayed effects known. |
| Irritation/Corrosivity Data | My cause skin irritation with repeated contact. No other effects known. |
| Respiratory Sensitization | No data available. |
| Dermal Sensitization | No data available. |
| Component Carcinogenicity | No data available. |
| Germ Cell Mutagenicity | No data available. |
| Reproductive Toxicity | No data available. |
| Specific Target Organ Toxicity - Single Exposure | No data available. |
| Specific Target Organ Toxicity - Repeated Exposure | No data available. |
| Aspiration hazard | No data available. |
| Medical Conditions Aggravated by Exposure | No data available. |
| Additional Data | No additional information available. |

SECTION 12: TOXICOLOGICAL INFORMATION

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| Ecotoxicity | No data available |
| Component Analysis – Aquatic Toxicity | No data available |
| Persistence and Degradability | No information available for the product |
| Bioaccumulative Potential | No information available for the product |
| Mobility | No information available for the product |
| Other Toxicity | No additional information available |

SECTION 13: DISPOSAL CONSIDERATION

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| DISPOSAL METHODS: | <ul style="list-style-type: none"> (1) Recycle / reprocess; (2) Incineration including energy recovery of waste material in a permitted facility in accordance with local, state or federal regulations; (3) Landfilling in a licensed facility in accordance with local, state or federal regulations. |
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SECTION 14: TRANSPORT INFORMATION

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| Land Transport | Not Regulated |
| Air Transport | Not Regulated |
| Sea Transport | Not Regulated |
| Label Statement | Not Regulated |

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Finished product is not hazardous. Other country/state regulations may apply. Check individual country/state requirements.

SECTION 16: OTHER INFORMATION

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. This information relates to the specific material designated and may not be valid for such material used on combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user’s responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information.