POLYGUM® · FURNITURE GRADE · CODE PG-HM-SMFW

# POLYGUM® Hot Melt SMFW

Filled EVA hot melt granules for bonding PVC edge band to wood-based panels (plywood, MDF and particle board) on manual edge banding machines.

Prepared in the 16-section format of the Globally Harmonized System (GHS).

## Section 1: Identification

| | |
|---|---|
| **Product name** | POLYGUM® Hot Melt SMFW |
| **Product code** | PG-HM-SMFW |
| **Chemical name** | EVA hot melt adhesive |
| **Chemical family** | Thermoplastic hot melt adhesive, solid at room temperature |
| **Recommended use** | PVC edge band on plywood, MDF and particle board; Modular furniture, kitchen and wardrobe panels; Manual edge banding machine |
| **Uses advised against** | Uses other than those recommended. |
| **Supplier** | Synergy Bonding Solutions Pvt Ltd<br>205, 4th Floor, Mont Vert Spectra, Pallod Farms, Baner<br>Pune, Maharashtra 411045<br>India |
| **Manufacturing** | Own manufacturing plants in Pune, Maharashtra, India |
| **Telephone / Email** | +91 9021 086 995, +91 7774 055 316 \| marketing@synergybonding.in |
| **Emergency telephone** | +91 9021 086 995 (office hours) |

## Section 2: Hazard Identification

| | |
|---|---|
| **GHS classification** | **Not classified as hazardous under GHS.** |
| **Pictogram / signal word** | None required |
| **Hazard statements** | None |
| **Precautionary statements** | • P102 Keep out of reach of children.<br>• P280 Wear protective gloves and eye protection.<br>• P501 Dispose of contents and container in accordance with local regulations. |
| **Physical state** | Solid granules, frosty white |
| **Other hazards** | • Molten adhesive causes thermal burns.<br>• Fumes released if overheated above 210°C may irritate the eyes and respiratory tract.<br>• Spilled granules make floors slippery. |

## Section 3: Composition / Information on Ingredients

| Component | CAS No. | Content (% w/w) |
|---|---|---|
| **Ethylene – vinyl acetate copolymer (EVA)** | 24937-78-8 | Confidential |

## Section 3: Composition / Information on Ingredients

| Component | CAS No. | Content (% w/w) |
|---|---|---|
| **Tackifying resins (hydrocarbon / rosin ester)** | Confidential | Confidential |
| **Paraffin / synthetic waxes** | 8002-74-2 | Confidential |
| **Calcium carbonate** | 471-34-1 | Confidential |
| **Antioxidants** | Confidential | Minor |

## Section 4: First Aid Measures

| | |
|---|---|
| **Burns from molten adhesive** | Cool the area immediately under cold running water for at least 15 minutes. Do NOT peel solidified adhesive from the skin. Get medical attention. |
| **Eye contact** | Rinse with plenty of water. If molten material has entered the eye, get medical attention immediately. |
| **Inhalation of fumes** | Move to fresh air. Get medical attention if irritation persists. |
| **Ingestion** | Unlikely route of exposure. Rinse mouth; get medical advice if unwell. |

## Section 5: Fire Fighting Measures

| | |
|---|---|
| **Flammability** | Combustible solid; not flammable at normal temperatures. |
| **Suitable extinguishing media** | Water spray, foam, carbon dioxide, dry powder. |
| **Special hazards** | Burns with dense smoke, giving carbon monoxide, carbon dioxide and acetic acid vapours. |
| **Protective equipment** | Self-contained breathing apparatus. |

## Section 6: Accidental Release Measures

| | |
|---|---|
| **Personal precautions** | Avoid slipping on spilled granules. Do not touch molten material. |
| **Environmental precautions** | Prevent large quantities from entering drains. |
| **Clean-up** | Sweep up granules. Allow molten spills to cool and solidify, then scrape up and collect for reuse or disposal. |

## Section 7: Handling and Storage

| | |
|---|---|
| **Handling** | Keep melt tank, hose and nozzle within the recommended application temperature (160 – 180°C); never exceed 210°C. Provide local ventilation at the melt unit. Avoid contact with molten adhesive. |
| **Storage** | Store in the original packaging in a cool, dry place away from heat and direct sunlight. Rotate stock first-in, first-out. |
| **Incompatible materials** | Strong oxidising agents. |

## Section 8: Exposure Controls / Personal Protection

| | |
|---|---|
| **Engineering controls** | Local exhaust ventilation at the melt tank and application head. |

## Section 8: Exposure Controls / Personal Protection

| | |
|---|---|
| **Exposure limits** | None established for the product. |
| **Hand protection** | Heat resistant gloves when handling molten material. |
| **Eye protection** | Safety glasses with side shields; face shield when cleaning hot equipment. |
| **Body protection** | Long sleeved work clothing. |

## Section 9: Physical and Chemical Properties

| | |
|---|---|
| **Appearance** | Granules, frosty white |
| **Odour** | Slight, characteristic when molten |
| **Softening point** | 85 ± 5°C |
| **Application temperature** | 160 – 180°C |
| **Density** | 1.2 – 1.5 g/cm³ |
| **Viscosity** | 25,000 ± 2,500 cP at 170°C |
| **Flash point** | Above 200°C (expected) |
| **Solubility in water** | Insoluble |

## Section 10: Stability and Reactivity

| | |
|---|---|
| **Chemical stability** | Stable under normal conditions. |
| **Conditions to avoid** | Prolonged heating above 210°C, which causes degradation, charring and fumes. |
| **Materials to avoid** | Strong oxidising agents. |
| **Hazardous decomposition** | Irritating fumes, carbon oxides on overheating or burning. |

## Section 11: Toxicological Information

| | |
|---|---|
| **Acute toxicity** | Not expected to be toxic. The main hazard is thermal burns from molten material. |
| **Skin / eye** | Solid product is not irritating. Fumes from overheated material may irritate. |
| **Target organs** | None known. |

## Section 12: Ecological Information

| | |
|---|---|
| **Ecotoxicity** | Insoluble in water; not expected to be harmful to aquatic life. |
| **Persistence** | Not readily biodegradable. |

## Section 13: Disposal Considerations

| | |
|---|---|
| **Product** | Dispose of as non-hazardous industrial waste in accordance with local regulations. |
| **Packaging** | Recycle clean packaging where possible. |

## Section 14: Transport Information

| | |
|---|---|
| **UN number** | Not applicable |
| **Road / rail (ADR / RID)** | Not regulated |
| **Sea (IMDG Code)** | Not regulated; not a marine pollutant |
| **Air (ICAO-TI / IATA DGR)** | Not regulated |

## Section 15: Regulatory Information

| | |
|---|---|
| **GHS** | Not classified as hazardous. |

## Section 16: Other Information

| | |
|---|---|
| **Revision** | 02 |
| **Date of issue** | 18 November 2026 |
| **Supersedes** | All earlier editions of this data sheet |
| **Abbreviations** | GHS: Globally Harmonized System; TWA: time weighted average; STEL: short term exposure limit; TLV: threshold limit value; CAS: Chemical Abstracts Service. |
| **Disclaimer** | The information in this document is based on our present knowledge and laboratory tests, and is given in good faith as a guide. Because conditions of use are beyond our control, users must test the product to confirm its suitability for their own application. No warranty is given or implied, and this document does not relieve the user of the responsibility to comply with applicable laws and regulations. |