SAFETY DATA SHEETS

According to American OSHA Hazard Communication Standard (29 CFR 1910.1200)

Creation Date: 2026-09-23 SDS number: PL-XC-2026-US-013

1. Product and Company Identification

1.1 Product name	**G-flex**
1.2 Other means of identification	no data available
1.3 Recommended use of the chemical and restrictions on use	Identified uses: 3D Printing Uses advised against: no data available
1.4 Details of the supplier of the safety data sheet	**Company:** PolyMelt Manufacturing Inc. **Address:** 12515 Citypark Dr Missouri City, Texas 77489 **Tel:** +1 346 696 0327
1.5 Emergency phone number	Emergency phone: +1 346 696 0327 Service hours: Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours)

2. Hazard(s) Identification

2.1 GHS Classification in accordance with paragraph (d)(1)(i) of § 1910.1200	
Physical hazards	not classified as hazardous
Health hazards	not classified as hazardous
Environmental hazards	not classified as hazardous
2.2 Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of § 1910.1200	
Hazard symbol(s)	No hazard pictogram
Signal word	No signal word
Hazard statement(s)	Not applicable
Precautionary Statement(s)	Not applicable
Other hazards	Thermal hazard: Molten material can cause severe thermal burns upon skin contact.

3. Composition/Information on Ingredients

Chemical name	CAS number	% [weight]	Classification (GHS)
TPU	9009-54-5	20-60%	Not classified
CaCO3	471-34-1	0-10%	Not classified

Component Disclosure Statement:
The above includes identified components of this product.
Components not listed are either:
1) Not classified under GHS; or
2) Present below the threshold disclosure limits prescribed by OSHA HazCom 2012 / 29 CFR 1910.1200 (generally 1%, or 0.1% for carcinogens).

4. First Aid Measures

Following inhalation	None expected to require first aid measures. If breathed in, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical attention.
Following skin contact	None expected to require first aid measures. Wash thoroughly with soap and water. Get medical attention in the unlikely event that irritation persists.

Following eye contact	None expected to require first aid measures. Flush with running water for at least 15 minutes. If irritation persists get medical attention.
Following ingestion	Immediate first aid is not likely to be required. A physician or poison control center can be contacted for advice.
Notes to physician	Treat symptoms.

5. Fire-Fighting Measures

Flammable properties	No fire hazard under normal conditions.
Suitable (and unsuitable) extinguishing media	Suitable: Use dry chemical, carbon dioxide or alcohol-resistant foam. Unsuitable: Do not use a heavy water stream — could spread fire.
Specific hazards arising from the chemical	Hazardous decomposition products in case of fire: Carbon monoxide, carbon dioxide, organic products of decomposition. Under certain conditions of combustion traces of other toxic substances cannot be excluded.
Special protective equipment and precautions for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Avoid dust formation. Avoid breathing mist, gas or vapors. Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Methods and materials for containment and cleaning up	Sweep up and shovel into suitable containers. Clean up affected area.
Environmental precautions	Keep the chemical in suitable and closed containers for disposal. Avoid disposing into drainage/sewer system or directly into the aquatic environment.

7. Handling and Storage

Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling. **Ensure proper grounding and equipotential bonding.** Use non-sparking tools. Take measures against static electricity. Avoid dust accumulation (clean regularly).
Conditions for safe storage, including any incompatibilities	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. **Keep away from ignition sources, sparks, hot surfaces, and open flames — No smoking.** Do not store together with strong oxidizing agents.

8. Exposure Controls/Personal Protection

8.1 Control parameters

No occupational exposure limits (OEL) applicable for the ingredients of this product. OSHA 29 CFR 1910.1000, ACGIH TLVs (2025) and NIOSH REL were checked.

Biological limit values: No biological exposure limits noted for the ingredient(s).

8.2 Appropriate engineering controls	Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
8.3 Individual protection measures (PPE)	**Eye/face protection:** Wear safety glasses with side shields or tightly fitting safety goggles if dust is generated. **Skin protection:** Wear protective gloves and suitable protective work-wear to minimize skin contact. **Body protection:**

	Wash hands, forearms and face thoroughly after handling chemical products, before eating and smoking.
Respiratory protection:	If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.
Thermal hazards:	Wear suitable protective work-wear to prevent from thermal hazards.

9. Physical and Chemical Properties

Property	Value
Physical state	Solid
Color	Varies depending on colorant
Odor (includes odor threshold)	Odorless
Glass Transition point	Not available
Boiling point (or initial boiling point or boiling range)	Not applicable
Melting point/Freezing point	Not available
Solubility	Insoluble in water
Flammability	Not classified as flammable solid per GHS (physically combustible as an organic polymer)
Lower and upper explosion limit/ flammability limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	> 350 °C
Decomposition temperature	Not applicable
VOC	Not available
Density and/or relative density	1.22 g/cm³
Relative vapor density	Not applicable
Particle characteristics	Not available

Note on physical combustibility: This product is not classified as a flammable solid according to GHS criteria. However, as an organic polymer, the product is physically combustible and can burn when exposed to an ignition source or at very high temperatures. Above the decomposition temperature the product will ignite and sustain combustion, releasing carbon oxides and other thermal decomposition products (see Section 5 and Section 10).

10. Stability and Reactivity

10.1 Reactivity	The product is stable under normal conditions of use, storage and transport.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
10.4 Conditions to avoid	**Heat, flames, sparks, and any ignition sources.** Direct sunlight. Dust formation. Excessive heating (> 60 °C). Protect from moisture. Incompatible materials (see 10.5).
10.5 Incompatible materials	**Strong oxidizing agents (e.g. peroxides, chlorates, nitrates, perchlorates) — may intensify combustion behavior.** Strong acids. Strong bases. Reducing agents.
10.6 Hazardous decomposition products	Carbon oxides (CO, CO2)

11. Toxicological Information

11.1 Toxicokinetics, metabolism and distribution: Not applicable.

11.2 Information on toxicological effects:

No toxicological data is required under OSHA 29 CFR 1910.1200. The ingredients in this product have been evaluated and are not classified as hazardous under GHS or OSHA HazCom.

12. Ecological Information

Property	Value
LC50 (Lethal Concentration 50%)	N/A (not classified as hazardous to aquatic environment)
EC50 (Effective Concentration 50%)	N/A (not classified as hazardous to aquatic environment)
ErC50 (EbC50/ErC50 algal growth rate)	N/A (not classified as hazardous to aquatic environment)

Ecotoxicity: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Persistence and degradability: no data available
Bioaccumulative potential: no data available
Mobility in soil: no data available
Results of PBT&vPvB assessment: no data available
Other adverse effects: no data available

13. Disposal Considerations

13.1 Disposal methods	Product: Dispose of contents/containers in accordance with local regulations. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT (U.S. Department of Transportation)
UN number: Not regulated
Proper shipping name: Not regulated
Hazard class: Not regulated
Packing group: Not regulated
Environmental hazards: Not applicable

IATA (International Air Transport Association)
UN number: Not regulated
Proper shipping name: Not regulated
Hazard class: Not regulated
Packing group: Not regulated
Environmental hazards: Not applicable

IMDG (International Maritime Dangerous Goods)
UN number: Not regulated
Proper shipping name: Not regulated
Hazard class: Not regulated
Packing group: Not regulated
Environmental hazards: Not applicable

15. Regulatory Information

TSCA (Toxic Substances Control Act)
Listed or Exempted.
CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed in CERCLA Hazardous Substance List.
EPCRA Section 302 (Extremely Hazardous Substances)
No EPCRA Section 302 EHS identified.
EPCRA Section 304 (Emergency Release Notification)
No EPCRA Section 304 RQ substances identified.
EPCRA Section 313 (Toxic Release Inventory / TRI)
No EPCRA Section 313 TRI chemicals identified.
California Proposition 65
No Prop 65 chemicals identified.
SARA 311/312 Hazardous Chemical

Classification depends on ingredient quantities and hazards — verify for your facility.
NOTE: Regulatory status should be verified by the user for all components. Sources: TSCA Inventory (EPA, Jul 2025), EPA Consolidated List (Apr 2025), Prop 65 (CA OEHHA, Dec 2025).

16. Other Information

Information on revision	Creation Date: 2026-09-23

CAS: Chemical Abstracts Service
TWA: Time Weighted Average
STEL: Short term exposure limit
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
EC50: Effective Concentration 50%
PEL: Permissible Exposure Limit
TLV: Threshold Limit Value
OSHA: Occupational Safety and Health Administration
ACGIH: American Conference of Governmental Industrial Hygienists
GHS: Globally Harmonized System
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
DOT: Department of Transportation
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
STOT: Specific Target Organ Toxicity
UN: United Nations
VOC: Volatile Organic Compound

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