

toner plastics

Safety Data Sheet

TPU

Effective Date: 11/02/2020

Revision Number: 01

1.) PRODUCT & SUPPLIER INFORMATION

Product Identification:

Product Name: TPU

Chemical Name(s): Thermoplastic Polyurethane (TPU)

Recommended Use: Additive Manufacturing

Supplier Information:

Company Name: Toner Plastics

Street: 35 Industrial Drive

Address: East Longmeadow, MA - 01028

Phone: +1 (413)-525-2369

Email: jk@tonerplastics.com

2.) HAZARD INFORMATION

Physical Hazards: None known

Regulation NO 1272/2008: Not classified as a dangerous product

OSHA Regulatory Status: This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

3.) COMPOSITION & INGREDIENT(S) INFORMATION

Components	CAS Number	Concentration Range (%)
Thermoplastic Polyurethane (TPU) Resin	75701-44-9	> 96
Colorant	N/A	< 4

Note: Only non-hazardous colorants are used. No leachable, extractable, or heavy metal colorants are used.

4.) PHYSICAL & CHEMICAL INFORMATION

Form: Solid

Appearance: Monofilament

Odor: N/A

Freezing Point (°C): N/A

Melting Point (°C): Varies

Boiling Point (°C): N/A

Specific Gravity (g/cm³): > 1

Vapor Pressure (mm Hg): Negligible

Water Solubility: Insoluble

Volatile Compound Percentage: N/A

Note: The data presented above is based on material tested but may vary from sample-to-sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

5.) FIRST AID PROCEDURES

Eyes: Flush with water. Consult a physician if symptoms persist.

Skin Contact: Wash with soap and water. For thermal burns from molten polymer, immediately flush with cold water. Do not attempt to remove cooled polymer from skin. Obtain immediate medical attention.

Ingestion: Not likely due to nature of product. If ingested, drink plenty of water. Do not induce vomiting. Consult a physician if symptoms persist.

Inhalation: Leave exposed area and seek fresh air. If irritation persists, seek medical attention.

6.) FIRE & EXPLOSION HAZARD(S)

Safety Precautions for Persons exposed to products of combustion should wear NIOSH approved self-contained breathing apparatus and full protective equipment.

Extinguishing Media: Water spray, dry powder, and foam. Carbon dioxide (CO₂).

7.) ACCIDENTAL RELEASE COUNTERMEASURES

Spill or release: Clean up by vacuuming or sweeping to prevent falls. If molten, allow material to cool and place into an appropriate container for disposal.

8.) HANDLING & STORAGE CONDITIONS

Precautions to be taken in handling and storage: Store in a dry, sprinkler equipped warehouse. Product as shipped is not a combustible dust. Mechanical handling can cause the formation of dusts. To reduce the risk for dust explosion do not permit dust to accumulate.

Waste Disposal: Dispose in accordance with applicable federal, state and local regulations.

9.) EXPOSURE & PERSONAL PROTECTIVE EQUIPMENT

Exposure Limits: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Respiratory Protection: A NIOSH approved respirator is recommended for protection against processing polymeric fumes, or from dust generated from grinding, sanding, or sawing operations.

Ventilation: Local exhaust is preferred.

Protection Gloves: Canvas or cotton gloves are recommended.

Eye Protection: Safety glasses with side shields are recommended.

Other: No protective equipment is needed under normal use conditions.

10.) STABILITY & REACTIVITY

Chemical Stability: Stable under normal conditions

Conditions to Avoid: Incompatible materials - including strong oxidizing agents

Hazardous Decomposition Byproducts: Thermal decomposition has the potential to yield smoke, phenols, hydrogen cyanide, carbon dioxide, carbon monoxide, and intense heat.

11.) TOXICOLOGICAL INFORMATION

No specific toxicological information is available.

12.) ECOLOGICAL INFORMATION

No specific ecological information is available.

13.) DISPOSAL PROCEDURES

Waste or unused material is to be discarded in accordance with federal, state, and local regulations.

14.) TRANSPORTATION

Land Transport (DOT): Non-Regulated

Sea Transport (IMDG): Non-Regulated

Air Transport (ICAO/IATA): Non-Regulated

15.) REGULATORY INFORMATION

TSCA: Complies

EINECS/ELINCS: N/A

DSL/NDSL: Complies

PICCS: N/A

ENCS: Complies

IECSC: Complies

AICS: Complies

KECL: Complies

16.) MISCELLANEOUS INFORMATION

Prepared by: Management

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Supersedes: N/A

This information set forth herein has been gathered from standard reference materials and/or supplier test data and is, to the best knowledge and belief of Toner Plastics, accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones which exist. Toner Plastics makes no warranties, expressed or implied, with respect to the use of such information or the use of the specific material identified herein combination with any other material or process, and assumes no responsibility therefore.