



# Safety Data Sheet (SDS)

## 1.1 Product Name/Identifier:

DREMC TPU

## 1.2 Relevant identified uses of the substance or mixture and uses advised against:

3D Printing Supplies / Additive manufacturing

## 1.3 Details of the supplier of the safety datasheet:

Importer	DREMC PTY LTD
Address	PO BOX 5340 ALGESTER QLD 4115 AUSTRALIA
Contact (Office Hours)	+61 0480 080 180 / support@dremc.com.au
Emergency Contact	+61 0480 080 180 (Office Hours Only)
Transport Method	Air, Sea, Rail, Road

DREMC PTY LTD uses an agent company to manufacture this filament on its behalf.

## 2.1 Hazards Identification

Summary of Hazard in an Emergency Situation

Solid Does not mix with water. Sinks in water. Combustible.

May cause long-term adverse effects in the environment. Use appropriate container to avoid environmental contamination.

Avoid release to the environment.

Physical Hazards: None

Regulation (EC) NO 1272/2008: Not classified as a dangerous product.

## 2.2 Label elements

**Hazard pictogram(s):** Not Applicable

**Signal word:** Not Applicable

### Physical and Chemical Hazard:

Solid. Does not mix with water. Sinks in water. Combustible.

Toxic smoke/fumes in a fire. Dispose of this material and its container at hazardous or special waste collection point.

## 2.3 Health Hazards

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion".
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact
Eye	The material is not thought to be an irritant

Chronic	There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population.
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## 2.4 Precautionary statement:

**Prevention:** Not applicable.

**Response:** Not applicable.

**Storage:** Not applicable.

**Disposal:** Not applicable.

**Specific hazards:** Not applicable.

## 2.5 Environmental Hazards:

Not classified

## 3.1 Composition/Information on ingredients

This product does not contain hazardous ingredients above cut-off value according to the Code of Practice for Labelling of Workplace Hazardous Chemicals (2015).

Ingredient Name	CAS No.
TPU	90009-54-5

## 4.1 First aid measures

Inhaled	Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion	If large amounts were swallowed, get medical advice from Australia Poison Centre Information or doctor.
Skin Contact	Wash off with soap and plenty of water. Seek medical attention in event of irritation.
Eye	Immediately flush eyes with plenty of water, lifting upper and lower eyelids. occasionally. Get medical attention if irritation persists.

## 5.1 Fire Fighting Measure

**Extinguishing Media:** Alcohol stable foam (There is no restriction on the type of extinguisher which may be used.)

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6.1 Accidental Release Measure

**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.

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

Polyvinyl alcohol powder is a ST-1 (strong) dust explosion hazard when tested to ASTM E-1226. The explosive hazard is highly dependent on particle size, the finer the particles the greater the explosive strength.

Typical maximum explosion pressure: 540 kPa

Refer to 8.1 for personal proactive equipment advise.

### **7.1 Handling and storage condition**

**Handling:** 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, storage in original containers.

**Storage:** Store in cool, dry area protected from environmental extremes, store away from incompatible materials and food containers. Avoid reaction with oxidising agents.

Suitable container: Polyethylene or polypropylene container.

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

### **8.1 Exposure and protection Information**

**Repository protection:** A NIOSH approved respirator is recommended for protection against processing polymeric fumes, or from dust generated from grinding, sanding, or sawing operations according to AS/NZS 1716 & 1715.

**Eye protection:** Safety glasses with side shields are recommended. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly according to AS/NZS 1336

**Skin protection:** Wear protective clothing according to AS/NZS 2161.10.1

**Ventilation:** Local exhaust is preferred.

### **9.1 Physical and chemical properties**

**Colour:** Black

**Form:** Strip

**Odour:** Odorless

**Melting range(°C):** Not available

**Boling Range(°C):** Not available

**Flash Point(°C):** Not available

**Decomposition Temp(°C):** Not available

**Autoignition Temp(°C):** Not available

**Upper Explosive Limit(%):** Not available

**Lower Explosive Limit(%):** Not available

**Molecular Weight:** 1.25 g/cm<sup>3</sup>

**Viscosity:** Not available

**Solubility in water:** Partly Miscible

**pH (1% solution):** Not available

**pH (as supplied):** Not available

**Vapour Pressure (kPa):** Not available

**Specific Gravity (water=1):** Not available

**Relative Vapour Density (air=1):** Not available

**Evaporation Rate:** Not available

### 10.1 Stability and Reactivity

**Reactivity:** The substance is stable under normal storage and handling conditions.

**Chemical stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Possibility of hazardous:** No dangerous reactions known.

**Reactions Conditions to avoid:** Incompatible materials.

**Incompatible materials:** Strong oxidizing agents

**Hazardous decomposition products:** Carbon oxides.

### 11.1 Toxicological Information

**Acute Toxicity:** Not available

**LD/LC50 values relevant for classification:** Not available

**Skin corrosion/Irritation:** Not available

**Serious eye damage/irritation:** Not available

**Respiratory or skin sensitization:** Not available

## 12.1 Ecological Information

TPU	Not available
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## 12.1 Disposal Consideration

**Waste Disposal:** Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. DO NOT allow wash water from cleaning or process equipment to enter drains. Where in doubt contact the responsible authority

## 13 Transport Information

**13.1 UN number or ID number:** Not Applicable

**13.2 UN proper shipping name:** Not Applicable

**13.3 Transport hazard class(es):** Not Applicable

**13.4 Packing group:** Not Applicable

**13.5 Environmental hazards** Not Applicable

**13.6 Special precautions for user:** Not Applicable

**13.7 Maritime transport in bulk according to IMO instruments:** Not Applicable

## 14. Regulatory Information:

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

The product should follow the relevant regulations of EU Directive/Hazardous substances regulations.

### 14.2 Chemical safety assessment

No chemical safety assessment has been carried out.

## 15 Other Information:

This information is based on our present knowledge and represents the best information currently available to us. However, we make no warranty of the merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. This shall not constitute a guarantee for any specific product features and shall not establish a legally available contractual relationship.