

SAFETY DATA SHEET

ThermaX[™] PEI [Made using Ultem[™] 1010 Polyether Imide]

EFFECTIVE DATE: 01/01/2019

REVISION NUMBER: V2.0

1 PRODUCT AND SUPPLIER INFORMATION

Product Identification:

Product Name: Thermax™ PEI [Made using ULTEM™ 1010] Model Material Chemical Name: Polyetherimide (PEI)

Recommended Use: Additive manufacturing

Supplier Information:

3DXTECH 904 36th Street SE, Suite B Grand Rapids, MI 49508 (USA) Phone (616) 214-7965 Email: INFO@3DXTECH Emergency Phone Number: (616) 214-7965

2 HAZARDS INDENTIFICATION

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

Physical Hazards: None

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

3 COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Concentration Range (%)
Polyetherimide	61128-46-9	100

4 EMERGENCY FIRST AID

Eyes: Flush with water. Consult 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 medical attention.

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

5 FIRE AND EXPLOSION HAZARD

Extinguishing Media: Water spray, dry powder, and foam. Carbon dioxide (CO_2)

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

6 ACCIDENTAL RELEASE MEASURES

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.

7 HANDLING AND 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.

8 EXPOSURE AND PROTECTION INFORMATION

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

Respitory 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.

9 PHYSICAL/CHEMICAL DATA

Form: Solid Appearance: Natural or colored as specified. Odor: None Freezing Point: N/A Solubility in Water: Insoluble Specific Gravity: >1 % Volatile: N/A Boiling Range: N/A Vapor Pressure (MM HG): Negligible Melting Point: This product does not possess a specific melting point. It softens gradually over a wide temperature range.

Note: Those physical data are typical values 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.

10 STABILITY AND REACTIVITY

Polymerization conditions to avoid: None

Chemical Stability: Stable under normal conditions

Conditions to avoid: Incompatible materials, including strong oxidizing agents

Hazardous decomposition byproducts: Thermal decomposition can yield intense heat, dense smoke, phenols, hydrogen cyanide, carbon dioxide, and carbon monoxide.

11 TOXICOLOGICAL INFORMATION

No specific toxicological information is available.

12 ECOLOGICAL INFORMATION

No specific ecological information is available.

13 DISPOSAL

Waste Disposal: Waste or unused product may be discarded in accordance with state, federal, and local regulations.

14 TRANSPORT INFORMATION

Land Transport (DOT): Non-Regulated Sea Transport (IMDG): Non-Regulated Air Transport (ICAO/IATA): Non-Regulated

15 REGULATORY INFROMATION

TSCA: Complies EINECS/ELINCS: N/A DSL/NDSL: Complies PICCS: N/A ENCS: Complies IECSC: Complies AICS: Complies KECL: Complies

16 MISCELLANEOUS INFORMATION

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