

SECTION 1 – Identification of the substance/mixture and of the company

Product Name	Tennet PI
Chemical Name	Polyimide
Pure substance/mixture	Substance

Section 1.2 – Relevant identified uses of the substance or mixture and uses advised against

Application	Additive Manufacturing
Used advised against	Not identified.

Section 1.3 – Details of the supplier of the safety data sheet Manufacturer

Tectonic 3D B.V. High Tech Campus 9 5656 AE Eindhoven The Netherlands Tel +31 (0) 6 13038767 https://www.tectonic-3d.com/

E-mail address info@tectonic-3d.com

Section 1.4 – Emergency telephone number

Europe Emergency telephone +31 (0) 6 13038767 (08.00-17.00 CET)

United Kingdom See above.

SECTION 2 - Hazards Identification Summary

Section 2.1 – Classification of the substance or mixture Classification according to Regulation (EC) N0. 1272/2008 [CLP]

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

Section 2.2 – Label elements

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

Symbols/Pictograms

Not applicable.

Signal word None.

Hazard Statements Not applicable.

Precautionary Statements

Not applicable.





Section 2.3 – Other Hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

SECTION 3 – Composition/information on ingredients

Section 3.1 – Substances

Chemical Name	EC No	CAS No	REACH Registration Number	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polyimide	Not available	649559-13-7	No data available	100	Not classified

Section 3.2 – Mixtures

Not applicable

* Full text of H- and EUH-phrases: see section 16

SECTION 4 – First Aid Measures

Section 4.1 – Description of first aid measures

Inhalation Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. Consult a physician after significant exposure. In contact with molten product immediately flush with cold Skin Contact water for at least 10 min. Do not peel solidified polymer of skin. Obtain medical attention. Rinse thoroughly with plenty of water for at least 20 minutes, Eye Contact also under the eyelids. Consult a physician immediately. Ingestion Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur and show mSDS.

Section 4.2 – Most important symptoms and affects, both acute and delayed

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Section 4.3 – Indication of any immediate medical attention and special treatment needed Treat symptomatically





SECTION 5 – Firefighting Measures

Section 5.1 – Extinguishing media

Suitable extinguishing media

Water spray(fog), Foam, Carbon Dioxide(CO_2) Extinguishing powder, Dry chemical powder.

Unsuitable extinguishing media

Unknown

Section 5.2 – Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon Dioxide (CO_2) .

Section 5.3 – Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Section 6 – Accidental Release Measures

Section 6.1 – Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Avoid contact with eyes and skin. Remove all sources of ignition.

Section 6.2 – Environmental precautions

Do not flush into surface water or sanitary sewer system. See section 12 for additional ecological information.

Section 6.3 – Methods and material for containment and cleaning

Methods for containment

Prevent product from entering drains.

Methods for cleaning

Collect in closed and suitable container for disposal.

Section 6.4 – Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7 – Handling and Storage

Section 7.1 – Precautions for safe handling

Ensure adequate ventilation, especially in confined areas. Protect from direct sunlight. Keep away from heat. Use personal protective equipment as required.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Ensure good ventilation at the work station.

Section 7.2 – Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool environment.





Section 7.3 – Specific end use(s)

See the Technical data sheet (TDs) for further information

Section 8 – Exposure Controls/Personal Protection

Exposure limits

Keep personal exposure below Derived No Effect Level (DNEL) and national exposure limit values(if existing)

Derived No Effect Level (DNEL) – Worker

Not Determined

Derived No Effect Level (DNEL) - Consumer

Not Determined

Predicted No Effect Concentration (PNEC)

Not Determined

Section 8.2 – Exposure Controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal

protective equipment Eye/face protection Hand Protection

Skin and Body protection Respiratory protection

Environmental exposure controls

No information available

Wear safety glasses with side shields (or goggles) Protective gloves not necessarily. However, recommend using protective gloves mad of rubber PVC gloves, Butyl rubber, Chloroprene rubber, CR. Long sleeved clothing None under normal conditions. Provide adequate ventilation.

Section 9 – Physical and Chemical Properties

Section 9.1 – Information on basic physical and chemical properties

Appearance	Filament
Color	Transparent Amber Gold
Odor	Odorless
Odor threshold	Not applicable





Property	Value	Remarks Method
РН		No information available
Melting point/ freezing point		No information available
Boiling point / boiling range		Not determined
Flash point		Not determined
Evaporation rate		No information available
Flammability (solid, gas)	· · · · · · · · · · · · · · · · · · ·	Not determined
Explosive limits		No information available
Upper explosive limits		Not applicable
Lower explosive limits		Not applicable
Vapor Pressure		Not determined
Vapor Density		Not applicable
Relative Density		No information available
Water Solubility		Insoluble in water
Solubility(ies)		No information available
Partition Coefficient		No information available
Autoignition Temperature		No information available
Decomposition Temperature		No information available
Kinematic Viscosity		No information available
Dynamic Viscosity		No information available
Explosive properties		No information available
Oxidizing properties		No information available
Density		No information available
Bulk Density		No information available

Section 9.2 – Other information No information available

Section 10 – Stability and Reactivity

Section 10.1 – Reactivity

There exists no specific test data for this product. For further information, see subsequent subsections of this chapter.

Section 10.2 – Chemical stability

Stable under recommended storage conditions.

Section 10.3 – Possibility of hazardous reactions

None under normal processing.

Section 10.4 – Conditions to avoid

Heat. Direct sunlight. Avoid extreme temperatures. Incompatible materials

Section 10.5 – Incompatible materials

Oxidizing agents.

Section 10.6 – Hazardous decomposition products

May emit toxic fumes under fire conditions: Carbon monoxide (CO), Carbon dioxide (CO₂).





Section 11 – Toxicological Information

Section 11.1 – Information on toxicological effects

Information on likely routes of exposure

Inhalation

Symptoms related to the physical, chemical and toxicological characteristics

Unknown

Numerical measures of toxicity

Acute toxicity

Caution - substance not yet fully tested. Due to the composition of the substance and studies made on similar products, we believe that the substance is not classified as hazardous. The polyimide is not bioavailable because of its molecular size.

The following values are calculated based on chapter 3.1 of the GHS document

Polvimide (649559-13-7)

Method	Species	Exposure route	Effective dose	Remarks
No data available				

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available.

Respiratory or skin sensitization

No sensitizing effects known.

Germ cell mutagenicity

No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT – Single exposure

No information available. STOT – Repeated exposure No information available.

Aspiration hazard No hazard identified





Section 12 – Ecological Information

Section 12.1 – Toxicity

This polymer is not bioavailable because of its molecular size.

Polyimide (649559-13-7)

Method	Species	Exposure route	Effective dose	Remarks
No data available				

Section 12.2 – Persistence and degradability

No information available.

Section 12.3 – Bio accumulative potential

No information available.

Section 12.4 – Mobility in soil

No information available.

Section 12.5 – Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria of classification as PBT or vPvB

Section 12.6 – Other adverse effects

No information available.

Section 13 – Disposal Considerations

Section 13.1 – Waste treatment methods

Waste from residues/unused products

The product is not classified as hazardous waste. Incinerate at a licensed installation.

Contaminated packaging

Thoroughly emptied and clean packaging may be recycled.

Other information

Waste codes should be assigned by the user based on the application for which the product was used.





Section 14 – Transport Information

ADR Road Transport	
14.1 UN Number	Not i
14.2 UN Proper Shipping Name	Not i
14.3 Transport Hazard Class(es)	Not i
14.4 Packing Group	Not i
14.5 Environmental Hazard	Not a
14.6 Special Precautions For User	None
RID Rail Transport	
14.1 UN Number	Not i
14.2 UN Proper Shipping Name	Not i
14.3 Transport Hazard Class(es)	Not
14.4 Packing Group	Not
14.5 Environmental Hazard	Not a
14.6 Special Precautions For User	None
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IMDG Sea Transport	
14.1 UN Number	Not i
14.2 UN Proper Shipping Name	Not
14.3 Transport Hazard Class(es)	Not i
14.4 Packing Group	Not i
14.5 Marine Pollutant	Not a
14.6 Special Precautions For User	None
14.7 Transport In Bulk According to	No ir
Annex II of MARPOL 73/78 and	
The IBC Code	
IATA Air Transport	
14.1 UN Number	Noti

14.2 UN Proper Shipping Name
14.3 Transport Hazard Class(es)
14.4 Packing Group
14.5 Environmental Hazard
14.6 Special Precautions For User

Not regulated. Not regulated. Not regulated. Not regulated. Not applicable. None.

Not regulated. Not regulated. Not regulated. Not regulated. Not applicable. None.

Not regulated. Not regulated. Not regulated. Not regulated. Not applicable. None. No information available.

Not regulated. Not regulated. Not regulated. Not regulated. Not applicable. None.





Section 15 – Regulatory Information

Section 15.1 – Safety, health and environmental regulation/legislation specific for the substance or mixture

International Regulations

Not applicable.

European Union

Not applicable.

Not applicable.

France Occupational Illnesses (R-463-3, France)

Germany Water hazard class (WGK)

Not applicable. (Water endangering class = 1 (self-classification)

Section 15.2 – Chemical safety assessment

Not applicable.

Section 16 – Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

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Revision Note No information available

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006, COMMISION REGULATION (EU) No. 830/2015 of 20 May 2015

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End of Safety Data Sheet

