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

Product Name AURA PETG
Chemical Name Polyethylene terephthalate glycol
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) 408517575
<https://www.tectonic-3d.com/>

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

Section 1.4 – Emergency telephone number**Europe**

Emergency telephone +31 (0) 408517575 (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) NO. 1272/2008 [CLP]**

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

Section 2.2 – Label elements

This mixture 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 hazards of this product are associated mainly with its processing. Molten polymer will produce thermal burns. Polymer dust may represent a fire hazard at sufficient concentrations in presence of ignition sources.

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]
Copolyester Polyethylene resin	Not available	XX-XX-X	No data available	> 99.9	Not classified

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

Section 3.2 – Mixtures

Not applicable

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.

Skin Contact

In contact with molten product immediately flush with cold water for at least 10 min. Do not peel solidified polymer of skin. Obtain medical attention.

Eye Contact

Rinse thoroughly with plenty of water for at least 20 minutes, 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.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Section 5.2 – Special hazards arising from the substance or mixture**Hazardous combustion products**

Acetaldehyde, 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 (sTDs) 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

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.

Environmental exposure controls

No information available

Section 9 – Physical and Chemical Properties

Section 9.1 – Information on basic physical and chemical properties

Appearance	Filament
Color	Black
Odor	Slight
Odor threshold	Not applicable



Property	Value	Remarks Method
PH		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		> 1.27 g/cm ³
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

No specific data.

Section 10.5 – Incompatible materials

Acetic Anhydride, acetone, aniline, benzene, chloroform, chromic acid, cyclohexanone, dimethylformamide, dioxane, ethyl acetate, phenol, tetrahydrofuran. Reactive with strong oxidizing agents, as well strong acids and caustic will decompose polyester.

Section 10.6 – Hazardous decomposition products

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

Section 11 – Toxicological Information

Section 11.1 – Information on toxicological effects**Information on likely routes of exposure**

Inhalation, Dermal.

Symptoms related to the physical, chemical and toxicological characteristics

Unknown

Numerical measures of toxicity**Acute toxicity**

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

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

Copolyester Polyethylene resin (XXX-XX-X)

Method	Species	Exposure route	Effective dose	Remarks
Unknown	Unknown	Unknown	Unknown	LD50 (lethal dose mg/kg)
Unknown	Unknown	Unknown	Unknown	LD50 (lethal dose mg/kg)

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.

Copolyester Polyethylene resin (XXX-XX-X)

Method	Species	Exposure route	Effective dose	Remarks
Unknown	Unknown	Unknown	Unknown	EC50 (effective concentration) mg/l

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 regulated.
14.2 UN Proper Shipping Name	Not regulated.
14.3 Transport Hazard Class(es)	Not regulated.
14.4 Packing Group	Not regulated.
14.5 Environmental Hazard	Not applicable.
14.6 Special Precautions For User	None.

RID Rail Transport

14.1 UN Number	Not regulated.
14.2 UN Proper Shipping Name	Not regulated.
14.3 Transport Hazard Class(es)	Not regulated.
14.4 Packing Group	Not regulated.
14.5 Environmental Hazard	Not applicable.
14.6 Special Precautions For User	None.

IMDG Sea Transport

14.1 UN Number	Not regulated.
14.2 UN Proper Shipping Name	Not regulated.
14.3 Transport Hazard Class(es)	Not regulated.
14.4 Packing Group	Not regulated.
14.5 Marine Pollutant	Not applicable.
14.6 Special Precautions For User	None.
14.7 Transport In Bulk According to Annex II of MARPOL 73/78 and The IBC Code	No information available.

IATA Air Transport

14.1 UN Number	Not regulated.
14.2 UN Proper Shipping Name	Not regulated.
14.3 Transport Hazard Class(es)	Not regulated.
14.4 Packing Group	Not regulated.
14.5 Environmental Hazard	Not applicable.
14.6 Special Precautions For User	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.

France

Occupational Illnesses (R-463-3, France)

Not applicable.

Germany

Water hazard class (WGK)

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**Issue Date**

20-January-2025

Revision Date

20-January-2025

Revision Note

No information available

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

All information supplied by or on behalf of Tectonic^{3D} in relation to its products, whether in the nature of data, recommendation or otherwise, is supposed by research and, in good faith, believed reliable, but Tectonic^{3D} assumes no liability and make no warranties of any kind, express or implied, including but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage or trade practice whatsoever in respect of application, processing or use made of aforementioned information or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequences from the use of all such information. Typical values are indicative only and are not to be construed as being binding specifications. Copyright © Tectonic^{3D} 2022. All rights reserved.

End of Safety Data Sheet