Tectonic 3D

Safety Data Sheet

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

Product Name ANASA TPC 95A Natural
Chemical Name ThermoPlastic Copolyester (TPC)
Pure substance/mixture Mixture

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

No data available.

Section 2.2 – Label elements

GHS label elements

Signal word	Not signal word.
Hazard Statements	No known significant effects or critical hazards

Precautionary Statements

Prevention:	Not applicable.
Response:	Not applicable.
Storage:	Not applicable.
Disposal:	Not applicable

Signal word

None.

Hazard Statements
Not applicable.

Precautionary Statements
Not applicable.

Section 2.3 – Other Hazards
No data available

SECTION 3 – Composition/information on ingredients

Section 3.2 – Mixtures

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

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
No data available.

Section 4.3 – Indication of any immediate medical attention and special treatment needed
No relevant information available Treat symptomatically.

SECTION 5 – Firefighting Measures

Section 5.1 – Extinguishing media

Suitable extinguishing media

ABC-powder Carbon dioxide (CO2) Water spray jet alcohol resistant foam 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

In case of fire may be liberated: Carbon monoxide (CO), Carbon Dioxide (CO_2), oxides of nitrogen (NOx), dense black smoke. Organic acids

Section 5.3 – Advice for firefighters

Use suitable breathing apparatus. In the event of fire, wear self-contained breathing apparatus and chemical protective clothing.

Section 5.4 – Additional information

Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Section 6 – Accidental Release Measures

Section 6.1 – Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Avoid dust formation. Remove persons to safety.

Protective equipment:

Wear breathing apparatus if exposed to vapors/dusts/aerosols. Wear protective gloves/protective clothing/eye protection/face protection

6.1.2. For emergency responders

Personal protection equipment:

Use appropriate respiratory protection. Personal protection equipment: see section 8

Section 6.2 – Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates rivers and lakes or drains inform respective authorities.

Section 6.3 – Methods and material for containment and cleaning

Methods for containment

Collect spillage. Pick up and arrange disposal without creating dust. Sweep up and shovel.
Keep in suitable, closed containers for disposal.

Methods for cleaning

Water (with cleaning agent)

Section 6.4 – Reference to other sections

Disposal: see section 13 Personal protection equipment: see section 8 Safe handling: see section 7.

6.5 Additional Information

Clear spills immediately. Use appropriate container to avoid environmental contamination.

Section 7 – Handling and Storage

Section 7.1 – Precautions for safe handling

Protective measures

Advices on safe handling

No special technical protective measures are necessary. Wear personal protection equipment (refer to section 8).

Fire prevent measures

Usual measures for fire prevention. Provide appropriate exhaust ventilation at places where dust is formed.

Measures to prevent aerosol and dust generation

Dust should be exhausted directly at the point of origin.

Advices on general occupational hygiene

Do not eat, drink or smoke or sniff when using this product. Wash hands before breaks and after work. Avoid contact with skin, eyes and clothes.

Section 7.2 – Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Electrical installations / working materials must comply with the technological safety standards.

Section 7.3 – Specific end use(s)

See the Technical data sheet (sTDs) for further information

Section 8 – Exposure Controls/Personal Protection

8.1 – Control parameters

No data available.

Section 8.2 – Exposure Controls

8.2.1. Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

8.2.2. Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields EN 166 (or goggles)
Skin and Body protection	Hand protection is not required. Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well.
Respiratory protection	Usually no personal respirative protection necessary. Particle filter device (EN 143)

8.2.3. Environmental exposure controls

Do not use above following temperatures: 300 °C

8.3 Additional information

No data available.

Section 9 – Physical and Chemical Properties

Section 9.1 – Information on basic physical and chemical properties

Appearance	Filament
Color	Natural
Odor	Not determined
Odor threshold	Not applicable

Property	Value	Remarks Method
PH		Not determined
Melting point	155 - 225°C	DSC, 10K/min | DIN EN ISO 11357-3
Freezing point		Not determined
Boiling point / boiling range		Not determined
Flash point	> 350°C	Not determined
Evaporation rate		Not determined
Flammability (solid, gas)		Not determined
Explosive limits		Not determined
Upper explosive limits		Not determined
Lower explosive limits		Not determined
Vapor Pressure		Not determined
Vapor Density		Not determined
Relative Density		Not determined
Water Solubility		Insoluble in water
Solubility(ies)		No information available
Partition Coefficient		No information available
Autoignition Temperature	> 400°C	No information available
Decomposition Temperature	> 300°C	No information available
Kinematic Viscosity		No information available
Dynamic Viscosity		No information available
Explosive properties		No information available
Oxidizing properties		No information available
Density	> 1.14 g/cm3	23°C | ISO 1183
Bulk Density		No information available

Section 9.2 – Other information

No information available

Section 10 – Stability and Reactivity

Section 10.1 – Reactivity

No decomposition if stored and applied as directed.

Section 10.2 – Chemical stability

No decomposition if stored and applied as directed

Section 10.3 – Possibility of hazardous reactions
Stable under recommended storage conditions. No hazards to be specially mentioned. Dust may form explosive mixture in air.

Section 10.4 – Conditions to avoid
No data available.

Section 10.5 – Incompatible materials
Not applicable.

Section 10.6 – Hazardous decomposition products
No data available.

Section 11 – Toxicological Information

Section 11.1 – Information on toxicological effects

Acute oral toxicity
Based on available data, the classification criteria are not met.

Acute dermal toxicity
Based on available data, the classification criteria are not met.

Acute inhalation
Based on available data, the classification criteria are not met.

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation
Based on available data, the classification criteria are not met.

Respiratory or skin sensitization
Based on available data, the classification criteria are not met.

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
Based on available data, the classification criteria are not met.

STOT – Single exposure
Based on available data, the classification criteria are not met.

STOT – Repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

Section 11.2 – Information on other hazards

Remarks: Stable under recommended storage conditions. No hazards to be specially mentioned. Dust may form explosive mixture in air.

Section 12 – Ecological Information

Section 12.1 – Toxicity

No data available.

Section 12.2 – Persistence and degradability

No data available

Section 12.3 – Bio accumulative potential

No data available

Section 12.4 – Mobility in soil

No data available.

Section 12.5 – Results of PBT and vPvB assessment

No data available

Section 12.6 – Endocrine disrupting properties

No data available

Section 12.7 – Other adverse effects

Ozone-Depletion Potential :	Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information	The components of this product are embedded in an impervious polymer matrix and are therefore not biologically available. This product is not biodegradable and not toxic to aquatic organisms.

Section 13 – Disposal Considerations

Section 13.1 – Waste treatment methods

Waste from residues/unused products

No data available.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code packaging

Remarks:

Waste treatment options
No data available.

Appropriate disposal / Package:
Completely emptied packages can be recycled.

Contaminated packaging
Thoroughly emptied and clean packaging may be recycled. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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

Section 14 – Transport Information

RID/ADR: Land Transport	
14.1 UN Number	No dangerous good in sense of these transport regulations.
14.2 UN Proper Shipping Name	No dangerous good in sense of these transport regulations.
14.3 Transport Hazard Class(es)	Not relevant.
14.4 Packing Group	Not relevant.
14.5 Environmental Hazard	Not relevant.
14.6 Special Precautions For User	Not relevant.
AND: Inland waterway craft	
14.1 UN Number	No dangerous good in sense of these transport regulations.
14.2 UN Proper Shipping Name	No dangerous good in sense of these transport regulations.
14.3 Transport Hazard Class(es)	Not relevant.
14.4 Packing Group	Not relevant.
14.5 Environmental Hazard	Not relevant.
14.6 Special Precautions For User	Not relevant.
IMDG: Sea Transport	
14.1 UN Number	No dangerous good in sense of these transport regulations.
14.2 UN Proper Shipping Name	No dangerous good in sense of these transport regulations.
14.3 Transport Hazard Class(es)	Not relevant.
14.4 Packing Group	Not relevant.
14.5 Marine Pollutant	Not relevant.
14.6 Special Precautions For User	Not relevant.
14.7 Transport In Bulk According to Annex II of MARPOL 73/78 and The IBC Code	Not relevant.
ICOA-TI / IATA-DGR: Air Transport	
14.1 UN Number	No dangerous good in sense of these transport regulations.
14.2 UN Proper Shipping Name	No dangerous good in sense of these transport regulations.
14.3 Transport Hazard Class(es)	Not relevant.
14.4 Packing Group	Not relevant.
14.5 Environmental Hazard	Not relevant.
14.6 Special Precautions For User	Not relevant.

14.7 Maritime Transport in bulk according to IMO instruments
No data available.

Section 15 – Regulatory Information

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

International Regulations	No information available.	Source:
European Union	No information available	
National regulations	No information available	

Section 15.2 – Chemical Safety assessment

Not data available

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