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

Product Name AURA ABS
Chemical Name Acrylonitrile Butadiene Styrene
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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Symbols/Pictograms

Not applicable.

Signal word

None.

Hazard Statements

Not applicable.

Precautionary Statements

Not applicable.



Section 2.3 – Other Hazards

~NFPA rating: (0 ~ 4) : Health: 0 , Flammability: 0, Reactivity: 0.

SECTION 3 – Composition/information on ingredients**Section 3.1 – Substances**

Not applicable

Section 3.2 – Mixtures

Chemical Name	EC No	CAS No	REACH Registration Number	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acrylonitrile Butadiene Styrene co- polymer	Polymer	9003-56-9	No data available	97-100	Not classified
Stabilizer	-	Proprietary	No data available	0 ~ 1	Not classified
Lubricant	-	Proprietary	No data available	0 ~ 3	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 known symptoms to date. May cause respiratory irritation.

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 (CO_2), 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), Hydrogen Cyanide.

Hazardous combustion products

In case of fire: Gases/vapors, toxic

Section 5.3 – Advice for firefighters

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

Section 5.4 – Additional information

Fire class A (Fires of solids, mainly organic nature, which normally burn down under glow forming.) Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Section 6 – Accidental Release Measures

Section 6.1 – Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Special danger of slipping by leaking/spilling product. Avoid breathing dust/fume/gas/mist/vapors/spray. 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

Take up mechanically. Do not allow to enter into surface water or drains.

Section 6.3 – Methods and material for containment and cleaning

Methods for containment

Collect spillage. Measures to prevent aerosol and dust generation Wet clean or vacuum up solids.

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

Advices on safe handling

Perform in accordance with (Section 8 Exposure controls/ Personal Protection)

- Put on appropriate personal protective equipment.
- Handle in a well-ventilated place.
- Avoid contact with heat, sparks, flame or other ignition sources.
- Remove all sources of ignition.
- Ground all equipment.
- Wash thoroughly after handling

Fire prevent measures

Usual measures for fire prevention.

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:

Recommended storage temperature <40 °C Keep container tightly closed in a cool, well-ventilated place.

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

8.1.1 Exposure limit

Exposure limit under ISHL	Not applicable
Exposure limit under ACGIH	Not applicable
Biological exposure limits	Not applicable

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

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

No data available

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	Distinctive odor
Odor threshold	Not available

Property	Value	Remarks	Method
PH	7	No information available	
Melting point		Not applicable	
Freezing point		Not applicable	
Boiling point / boiling range		Not applicable	
Flash point	349 °C (660°F)	No information available	
Evaporation rate		Not applicable	
Flammability (solid, gas)	1/16"HB (UL94)	No information available	
Explosive limits		Not determined	
Upper explosive limits		Not determined	
Lower explosive limits		Not determined	
Vapor Pressure		Not determined	
Vapor Density		Not applicable	
Relative Density	1.02 ~ 1.17	No information available	
Water Solubility		Insoluble in water	
Water		Insoluble	
Acetone,MEK, dichloromethane		Soluble	
Alcohol, Mineral Oil		Insoluble	
Solubility(ies)		No information available	
Partition Coefficient		No information available	
Autoignition Temperature	455 °C	No information available	
Decomposition Temperature		Not applicable	
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
Molecular weight	50,000 ~ 200,000	No information available

Section 9.2 – Other information

No information available

Section 10 – Stability and Reactivity

Section 10.1 – Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion. Combustible

Section 10.2 – Chemical stability

The product is stable under recommended storage and handling conditions. Decompose at 320°C on heating.

Section 10.3 – Possibility of hazardous reactions

Will not occur. Under normal conditions.

Section 10.4 – Conditions to avoid

Avoid contact with heat. Avoid contact with heat, sparks, flame or other ignition sources.

Section 10.5 – Incompatible materials

Strong oxidizing agents.

Section 10.6 – Hazardous decomposition products

Hydrogen cyanide. Generate monomer, oxides, gas/steam, hydrocarbon, low-molecular oligomers ring, gas products when heated to high temperature.

Section 11 – Toxicological Information

Section 11.1 – Information on toxicological effects**Acute oral toxicity**

No data available.

Acute dermal toxicity

No data available.

Acute inhalation

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/eye irritation

No data available.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available.

STOT – Single exposure

No data available.

STOT – Repeated exposure

No data available.

Aspiration hazard

No data available.

Section 11.2 – Information on other hazards

No data available.

Section 12 – Ecological Information

Section 12.1 – Toxicity

No data available.

Section 12.2 – Persistence and degradability

Not applicable.

Section 12.3 – Bio accumulative potential

Not applicable.

Section 12.4 – Mobility in soil

Not applicable

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

No data available

Section 13 – Disposal Considerations

Section 13.1 – Waste treatment methods**Waste from residues/unused products**

The user of this product must properly characterize the waste/container generated from the use of this product in accordance with all applicable federal, state and/or local laws and regulations in order to determine the proper disposal of the waste in accordance with all applicable federal, state and/or local laws and regulations.

13.1.1. Product/Packaging disposal

Special precautions for disposal:

The user of this product must disposal by oneself or entrust to waste disposer or person who other' s waste recycle and dispose, person who establish and operate waste disposal facilities. Dispose of waste in accordance with local regulation.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste: Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

No data available.

Contaminated packaging

No data available.

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

IMDG: Sea Transport

14.1 UN Number	Not applicable.
14.2 UN Proper Shipping Name	Not applicable.
14.3 Transport Hazard Class(es)	Not applicable.
14.4 Packing Group	Not applicable.
14.5 Marine Pollutant	Not applicable.
14.6 Special Precautions For User	Not applicable.
14.7 Transport In Bulk According to Annex II of MARPOL 73/78 and The IBC Code	Not applicable.

ICOA-TI / IATA-DGR: Air Transport

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

14.7 Maritime Transport in bulk according to IMO instruments

Not applicable.

Section 15 – Regulatory Information

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

Not applicable.

Source:

Korea

ISHL

This product is not subject to the chemical for classification and labelling under ISHL Article 41.

TCCA

This product is not classified as Toxic chemical and Observational chemical under TCCA Article 2.3. and 2.4.

TRI

Not regulated.

ACT

Not applicable.

United States of America

OSHA (29CFR1910.119)

Not applicable.

CERCLA section 103 (40CFR302.4)

Not applicable.

EPCRA section 302 (40CFR355.30)

Not applicable.

EPCRA section 304(40CFR355.40)

Not applicable.

EPCRA section 313 (40CFR372.65)

Not applicable.

TSCA

All substance are listed

European Union

Not data available.

National regulations**Netherlands**

Rotterdam Convention on Harmful Chemicals & Pesticides

Not applicable.

Sweden

Stockholm Convention on Persistent Organic Pollutants

Not applicable.

Canada

Montreal Protocol on Substances That Deplete the Ozone Layer

Not applicable.

Others

POPs Management Law

Not applicable.

REACH Regulation (EC) No. 1907/2006

Compliance

DSL

All substance are listed

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, COMMISSION REGULATION (EU) No. 830/2015 of 20 May 2015

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End of Safety Data Sheet