

Raise3D Premium TPU-95A Safety Data Sheet

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade name:

Raise3D Premium TPU-95A 3D Printing Filament

1.2 Use of the product:

3D Printer Filament

1.3 Supplier information

Supplier:

Raise 3D Technologies, Inc.

Address:

43 Tesla, Irvine, CA 92618

Emergency phone number: In case of toxicological emergency, contact your doctor.

Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture classification (REGULATION (EC) No 1272/2008)

This product is not classified according to Regulation (EC) 1272/2008 and Directive 67/548/EEC.

2.2 Label elements

Not applicable.

2.3 Other hazards

Skin sensitization material (Category 1) is contained less than 0.1%.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

This product does not contain hazardous ingredients above cut-off value according to HCS2012.



Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 General advice:

If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.

4.1.2 If inhaled:

None expected to require first aid measures. If breathed in, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical attention.

4.1.3 In case of skin contact:

None expected to require first aid measures. Wash thoroughly with soap and water. Get medical attention in the unlikely event that irritation persists.

4.1.4 In case of eye contact:

None expected to require first aid measures. Flush with running water for at least 15 minutes. If irritation persists get medical attention.

4.1.4 If swallowed:

Immediate first aid is not likely to be required. A physician or poison control center can be contacted for advice.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available.

Section 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Use extinguishers suitable for surrounding fire.

Unsuitable extinguishing media:

Not available.



5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting:

Exposure to decomposition products, carbon oxides, may be a hazard to health.

5.3 Advice for fire fighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

Further information:

Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

Avoid disposing into drainage/sewer system or directly into the aquatic environment.

6.3 Methods and materials for containment and cleaning up

Avoid dust formation. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Do not use compressed air when cleaning.

Section 7: HANDLING AND STORAGE

7.1 Handling

Advice on safe handling:

Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Dust explosion class:

No data available.



7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

store spool in a dry, cool and ventilated place.

Further information on storage conditions:

After opening the bag, Protect from moisture.

Advice on common storage:

Keep away from oxidizing agents and strongly acid or alkaline materials. Keep away from food, drink and animal feeding stuffs.

Storage temperature:

> 0 °C and ≤ 40 °C

Other data:

No decomposition if stored and applied as directed.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Occupational exposure limits:

This product has no PEL, TLV, or other recommended exposure limit.

8.2 Biological limit values

No biological exposure limits noted for the ingredient(s).

8.3 Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.4 Individual protection measures, such as personal protective equipment:

Eye / face protection: No special protection required.

Skin protection: No special protection required.

Respiratory protection: No special protection required.

8.5 General hygiene considerations:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.



Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance: Solid Filament

Odour: Odorless

Colour: Translucent

Odour threshold: No information available

pH Not available

Vapor pressure: Not available

Vapor density: Not available

Boiling point: Not available

Melting point/Freezing point: Not available

Solubility (water): Insoluble

Relative Density: 1.18-1.23

Flash point: Not available

Partition coefficient: Not available

Flammability limits in air, upper, %by volume: Not available

Flammability limits in air, lower, % by volume: Not available

Auto-ignition temperature: Not available

VOC: Not available

Percent volatile: Not available

Molecular Formula: Not available

Molecular Weight: Not available

Other data

Viscosity: Not available

Dissociation constant: Not available

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity:

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability:

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions:

No decomposition if stored and applied as directed.



10.4 Conditions to avoid:

Incompatible materials.

10.5 Incompatible materials:

Materials to avoid: Strong oxidizing agents

10.6 Hazardous decomposition products

Carbon oxides.

Section 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat): Not available

LD50(Dermal, Rabbit): Not available

LC50(Inhalation, Rat): Not available

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified



Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

The product is not classified as environmentally hazardous.

Components: Test results

Acute toxicity	Time	Species	Method		Evaluation	Remarks
LC50	N/A	96h	OECD 203	N/A		N/A
LC50	N/A	45h	OECD 203	N/A		N/A
LC50	N/A	72h	OECD 201	N/A		N/A

Methanol (Impurity)(67-56-1)

EC50 Algae: 22000 mg/l 96 hours

EC50 Daphnia magna: > 10000mg/l/48 hours

LC50 Fish: 15400 mg/l 96 hours

12.2 Persistence and degradability

No data is available on the degradability.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No data available.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal method

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging:

Since emptied containers may retain product residue, follow label warnings even after container is emptied.



Section 14: TRANSPORT INFORMATION

14.1 DOT

Basic shipping requirements:

UN number: Not regulated

Proper shipping name: Not regulated

Hazard class: Not regulated

Packing group: Not regulated

Environmental hazards: No

14.2 IATA

UN number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: No

14.3 IMDG

UN number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: No

Section 15: REGULATORY INFORMATION

15.1 US federal regulations

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

15.2 CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

15.3 SARA 304 Emergency release notification

Not regulated.

15.4 OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.



15.5 Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Not regulated.

15.6 Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

Section 16: OTHER INFORMATION

HMIS® ratings Health: 0

Flammability: 1

Physical hazard: 0

NFPA ratings Health: 0

Flammability: 1

Instability: 0

Revision information

Date of this revision: June 18, 2021

Declare to reader

Information is referenced from other manufacturers.

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2015/830. Label element according to Regulation (EC) No 1272/2008.



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