

# Raise3D Industrial PETG ESD Safety Data Sheet

Prepared in accordance with Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2020/878, and Regulation (EC) No 1272/2008 (CLP).

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Trade name:

Raise3D Industrial PETG ESD 3D Printing Filament

UFI: Not applicable. The product is not classified as a hazardous mixture under Regulation (EC) No. 1272/2008 (CLP).

### 1.2 Use of the product:

3D Printing Filament

### 1.3 Manufacturer information

#### Supplier:

Raise 3D Technologies, Inc.

#### Address:

13310 Pike Road, Stafford, TX 77477

#### Manufacturer address:

Building A1, Huanghai Road, Tongzhou District, Nantong City, Jiangsu Prov. China 226300

### 1.4 Emergency telephone number

*In case of toxicological emergency, contact your doctor first.*

*Emergency phone number: +86-021-65337855*

*Contact person (E-mail): Dr. Jin (minde.jin@raise3d.com)*

*Emergency contact information from Raise3D USA location:*

*United States*

*13310 Pike Road, Stafford, TX 77477*

*Tel: +1 888 963 9028.*

## Section 2: HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

No classification in accordance with the Regulation (EC) No. 1272/2008 [CLP].

## 2.2 Label elements

No labeling necessary according to the Regulation (EC) No. 1272/2008 [CLP].

## 2.3 Other hazards

This mixture does not meet the criteria for PBT or vPvB according to available information. Based on available supplier information, no components are known to have endocrine-disrupting properties for human health or the environment at reportable levels. The product is supplied as a solid filament; conductive carbon nanotube filler is dispersed in the polymer matrix and is not intended to be handled as a free powder under normal conditions of use.

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/Mixture: Mixture**

### Ingredient(s):

Chemical Name	Registration No.	Cas No.	EC No.	Concentration	Classification
Polyethylene terephthalate polymer	N/A	25038-59-9	924-655-5	>90%	Not Classified
Multi-wall carbon nanotubes	N/A	308068-56-6	608-533-6	5-9%	Not Classified

## Section 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

In all cases of doubt, or when symptoms persist, seek medical attention.

#### 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.

**4.1.5 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**

The product is not classified as harmful to human health effect.

**4.3 Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

## 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:**

No specific fire or explosion hazard. In case of fire, the following can be released: carbon monoxide, carbon dioxide.

### 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

#### 6.1.1 For non-emergency personnel:

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

#### 6.1.2 For emergency responders:

Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

### 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

Sweep up and shovel into suitable containers. Clean up affected area.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

## Section 7: HANDLING AND STORAGE

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## 7.1 Precautions for safe handling

### Advice on safe handling:

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

### Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

### 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:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 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.

## 7.3 Specific end use(s)

No other specific use.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters:

#### 8.1.1 Occupational exposure limits:

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

#### 8.1.2 Additional exposure limits under the conditions of use:

Not available.

#### 8.1.3 DNEL/DMEL and PNEC-Values:

Not available.

### 8.2 Biological limit values

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

### 8.3 Appropriate engineering controls:

Use adequate ventilation to keep airborne concentrations low.

### 8.4 Individual protection measures, such as personal protective equipment:

**Eye/face protection:** No special requirements.

**Hand protection:** No special requirements.

**Body protection:** No special requirements.

**Respiratory protection:** No special requirements.

**Thermal hazards:** Wear suitable protective clothing to prevent heat.

### 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.

### 8.6 Environmental exposure controls:

Avoid discharge into the environment. Dispose of rinse water in accordance with local and national regulations.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Property	Value / remark
<b>Physical state</b>	Solid filament
<b>Colour</b>	Black
<b>Odour</b>	Odourless to slight polymer odour
<b>Melting point / softening point</b>	Approx. 220 °C
<b>Boiling point or initial boiling point and boiling range</b>	Not applicable for a solid polymer mixture
<b>Flammability</b>	Combustible solid polymer; exact classification data not determined
<b>Lower and upper explosion limit</b>	Not applicable for the supplied filament form
<b>Flash point</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available; thermal decomposition may generate carbon oxides and irritating fumes
<b>pH</b>	Not applicable; insoluble solid
<b>Kinematic viscosity</b>	Not applicable; solid at ambient temperature
<b>Solubility</b>	Insoluble in water
<b>Partition coefficient n-octanol/water (log Kow)</b>	No data available
<b>Vapour pressure</b>	Not applicable; negligible at ambient temperature
<b>Density and/or relative density</b>	Relative density: 1.20
<b>Relative vapour density</b>	Not applicable
<b>Particle characteristics</b>	Not applicable to the supplied filament; conductive carbon nanotube filler is embedded in the polymer matrix

### 9.2 Other information

Property	Value / remark
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<b>Explosive properties</b>	The product is not expected to present explosive properties in the supplied filament form
<b>Oxidising properties</b>	Not expected to be oxidising
<b>Evaporation rate</b>	Not applicable
<b>Fat solubility / additional physical-chemical parameters</b>	No additional relevant data available

## Section 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

The substance is stable under normal storage and handling conditions.

### 10.2 Chemical stability:

Stable at room temperature in closed containers under normal storage and handling conditions.

### 10.3 Possibility of hazardous reactions:

No dangerous reactions known.

### 10.4 Conditions to avoid:

Incompatible materials.

### 10.5 Incompatible materials:

**Materials to avoid:** Strong oxidizing agents.

### 10.6 Hazardous decomposition products

Carbon oxides, Nitrogen oxides.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity:

**ATEmix(oral):** Not available.

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**ATEmix(Dermal):** Not available.

**ATEmix(inhalation):** Not available.

**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.

## 11.2 Information on other hazards

**Endocrine disrupting properties:** Based on available supplier information, the mixture does not contain components known to have endocrine-disrupting properties for human health at reportable levels. **Other information:** During melting or thermal processing, vapours or fumes may cause transient irritation to the respiratory tract and eyes if ventilation is insufficient.

## Section 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Acute (short-term) toxicity:**

**LC50(96h, Fish):** Not available.

**LC50(48h, Crustacea):** Not available.

**EC50(72h, Algae/aquatic plants):** Not available.

**Chronic (long-term) toxicity:**

**NOEC(Fish):** Not available.

**NOEC(Crustacea):** Not available.

**EC50(Algae/aquatic plants):** Not available.

**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 Results of PBT and vPvB assessment**

No data available.

**12.6 Other adverse effects**

No data available.

## Section 13: DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods****Disposal method****Disposal:**

The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

**Contaminated packaging:**

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

## Section 14: TRANSPORT INFORMATION

	<b>Land transport (ADR/RID)</b>	<b>Inland waterways (ADN)</b>	<b>Sea transport (IMDG)</b>	<b>Air transport (ICAO/IATA)</b>
<b>UN number or ID number</b>	Not regulated	Not regulated	Not regulated	Not regulated

<b>UN proper shipping name</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>Transport hazard class(es)</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>Packing group</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>Environmental hazards</b>	No	No	No	No
<b>Special precautions for user</b>	See Section 7. Protect from heat and physical damage during transport.	See Section 7. Protect from heat and physical damage during transport.	See Section 7. Protect from heat and physical damage during transport.	See Section 7. Protect from heat and physical damage during transport.
<b>Maritime transport in bulk according to IMO instruments</b>	Not applicable	Not applicable	Not applicable	Not applicable

## Section 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

#### Relevant information regarding authorization:

No ingredients are known to be subject to authorisation under REACH Annex XIV at reportable levels based on available supplier information.

#### Relevant information regarding restriction:

No specific restriction information has been identified for this mixture beyond general compliance with applicable chemical, worker protection and waste legislation.

#### Other EU regulations:

This safety data sheet is prepared in accordance with Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878, and considers the classification and labelling principles of Regulation (EC) No. 1272/2008 (CLP).

Users should ensure compliance with national occupational safety, environmental protection and waste-disposal requirements.

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**Other National regulations:**

No additional national regulatory information has been identified in this document.

**15.2 Chemical safety assessment**

No data available.

**Section 16: OTHER INFORMATION****16.1 Revision information**

Date of this revision: Apr 26, 2026

**16.2 Abbreviations and acronyms:**

**ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road.

**RID:** Regulation for rail international transportation of Dangerous goods.

**ADN:** European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

**IMDG:** Code international maritime dangerous goods code.

**ICAO-TI:** International Civil Aviation Organization The International Civil Aviation Covenant.

**IATA:** International Air Transport Association.

**LC50:** Median lethal concentration.

**EC50:** The effective concentration of substance that causes 50% of the maximum response.

**NOEC:** No Observed Effect Concentration.

**DNEL:** Derived no-effect level.

**PNEC:** Predicted no-effect concentration.

**STOT:** Specific target organ toxicity.

**IBC:** International Bulk Chemical.

**TLV:** Threshold Limit Value.

**16.3 Key literature references and sources for data**

ECHA Registered substances data.

**16.4 Training instructions**

Not applicable.

### **16.5 Further information**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

### **16.6 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).

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