

# PolyCore™ PETG-1113

## Safety Data Sheet

according to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations  
SDS Reference Number: CSSS-TCO-010-163512  
Issue date: 10/28/2024 Revision date: 10/28/2024 Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Article  
Product name : PolyCore™PETG-1113

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : 3D Printing Materials  
Restrictions on use : Not available

#### 1.3. Supplier

**Supplier**  
JF Polymers(Suzhou) Co., Ltd.  
No. 7-1 Xinggang East Road, Changshu City, Jiangsu Province, China.  
T +86-512-52058005 - F +86-512-52096516  
support@polymaker.com

#### 1.4. Emergency telephone number

Emergency number : -

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

No labeling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No additional information available

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name   | Product identifier | %   | GHS US classification |
|--|--------------------|-----|-----------------------|
| 1,4-Benzenedicarboxylic acid,polymer with 1,4-cyclohexanedimethanol and 1,2-ethanediol | CAS-No.:25038-91-9 | ≥65 | Not classified        |

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| Name  | Product identifier  | %    | GHS US classification |
|---|---------------------|------|-----------------------|
| Glass, oxide  | CAS-No.: 65997-17-3 | ≤30  | Carc. 1B, H350        |
| Phosphorous trichloride, reaction products with 1,1'-biphenyl and 2,4-bis (1,1-dimethylethyl)phenol | CAS-No.:119345-01-6 | <0.5 | Not classified        |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : If you feel unwell, seek medical advice.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                                   |
| First-aid measures after skin contact | : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.         |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Rinse mouth. Do not induce vomiting. Call a poison center/doctor/physician if you feel unwell.   |

### 4.2. Most important symptoms and effects (acute and delayed)

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.   |
| Symptoms/effects after eye contact  | : None under normal conditions. Dust from this product may cause eye irritation.  |
| Symptoms/effects after ingestion    | : None under normal conditions.   |

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide (CO2). |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                     |

### 5.2. Specific hazards arising from the chemical

|  |                                |
|--|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

### 5.3. Special protective equipment and precautions for fire-fighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |  |
|------------------|--|
| General measures | : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material- |
|------------------|--|

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damage.

6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Using a clean shovel, put the material in a dry container and cover without compressing it.
- Methods for cleaning up : Mechanically recover the product.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep in a cool, well-ventilated place away from heat.
- Storage conditions : Keep cool. Protect from sunlight.
- Packaging materials : Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:  
Wear recommended personal protective equipment.

Hand protection:

Protective gloves

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|  |
|--|
| Eye protection:  |
| Safety glasses   |
| Skin and body protection:  |
| Wear suitable protective clothing  |
| Respiratory protection:  |
| In case of insufficient ventilation, wear suitable respiratory equipment |

Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                       |
|---|-----------------------|
| Physical state                                  | : Solid               |
| Color   | : Various colours     |
| Odor  | : Odorless            |
| Odor threshold                                  | : No data available   |
| pH  | : No data available   |
| Melting point                                   | : No data available   |
| Freezing point                                  | : Not applicable      |
| Boiling point                                   | : No data available   |
| Flash point                                     | : Not applicable      |
| Relative evaporation rate (butyl acetate=1)     | : No data available   |
| Flammability (solid, gas)                       | : No data available   |
| Vapor pressure                                  | : No data available   |
| Relative vapor density at 20°C                  | : No data available   |
| Relative density                                | : 1.3                 |
| Solubility                                      | : Insoluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available   |
| Auto-ignition temperature                       | : Not applicable      |
| Decomposition temperature                       | : No data available   |
| Viscosity, kinematic                            | : Not applicable      |
| Viscosity, dynamic                              | : No data available   |
| Explosion limits                                | : Not applicable      |
| Explosive properties                            | : No data available   |
| Oxidizing properties                            | : No data available   |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.



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### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Incompatible materials. Keep away from heat and direct sunlight.

### 10.5. Incompatible materials

Strong acids, strong bases and oxidation agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                                     |   |
|-------------------------------------|---|
| Acute toxicity (oral)               | : Not classified  |
| Acute toxicity (dermal)             | : Not classified  |
| Acute toxicity (inhalation)         | : Not classified  |
| 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  |
| Viscosity, kinematic                | : Not applicable  |
| Symptoms/effects after inhalation   | : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.   |
| Symptoms/effects after eye contact  | : None under normal conditions. Dust from this product may cause eye irritation.  |
| Symptoms/effects after ingestion    | : None under normal conditions.   |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                   |  |
|-------------------|--|
| Ecology - general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
|-------------------|--|

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

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### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

|  |   |
|--|---|
| Regional waste regulation                  | : Disposal must be done according to official regulations.  |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                           |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.  |
| Product/Packaging disposal recommendations | : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations. |
| Additional information                     | : Do not re-use empty containers.   |

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

|                             |                 |
|-----------------------------|-----------------|
| Proper Shipping Name (DOT)  | : Not regulated |
| Proper Shipping Name (TDG)  | : Not regulated |
| Proper Shipping Name (IMDG) | : Not regulated |
| Proper Shipping Name (IATA) | : Not regulated |

### 14.3. Transport hazard class(es)

|                                  |                 |
|----------------------------------|-----------------|
| <b>DOT</b>                       |                 |
| Transport hazard class(es) (DOT) | : Not regulated |

|                                  |                 |
|----------------------------------|-----------------|
| <b>TDG</b>                       |                 |
| Transport hazard class(es) (TDG) | : Not regulated |

|                                   |                 |
|-----------------------------------|-----------------|
| <b>IMDG</b>                       |                 |
| Transport hazard class(es) (IMDG) | : Not regulated |

|                                   |                 |
|-----------------------------------|-----------------|
| <b>IATA</b>                       |                 |
| Transport hazard class(es) (IATA) | : Not regulated |

### 14.4. Packing group

|                      |                 |
|----------------------|-----------------|
| Packing group (DOT)  | : Not regulated |
| Packing group (TDG)  | : Not regulated |
| Packing group (IMDG) | : Not regulated |
| Packing group (IATA) | : Not regulated |

### 14.5. Environmental hazards

|                   |   |
|-------------------|---|
| Other information | : No supplementary information available. |
|-------------------|---|

### 14.6. Special precautions for user

|               |  |
|---------------|--|
| <b>DOT</b>    |  |
| Not regulated |  |

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TDG  
Not regulated

IMDG  
Not regulated

IATA  
Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

| PolyCore™ PETG-1113   |             |                |                   |       |
|---|-------------|----------------|-------------------|-------|
| SARA Section 311/312 Hazard Classes   |             | Not applicable |                   |       |
| Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA): |             |                |                   |       |
| Name  | CAS-No.     | Listing        | Commercial status | Flags |
| 1,4-Benzenedicarboxylic acid,polymer with 1,4-cyclohexanedimethylanol and 1,2-ethanediol  | 25038-91-9  | Present        | Active            | XU    |
| Glass, oxide  | 65997-17-3  | Present        | Active            |       |
| Phosphorous trichloride,reaction products with 1,1'-biphenyl and 2,4-bis(1,1-dimethylethyl)phenol                                     | 119345-01-6 | Present        | Active            | PMN   |

15.2. International regulations

CANADA

1,4-Benzenedicarboxylic acid,polymer with 1,4-cyclohexanedimethanol and 1,2-ethanediol(25038-91-9)

Listed on the Canadian DSL (Domestic Substances List)

Glass, oxide (65997-17-3)

Listed on the Canadian DSL (Domestic Substances List)

Phosphorous trichloride,reaction products with 1,1'-biphenyl and 2,4-bis(1,1-dimethylethyl)phenol(119345-01-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

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### Glass, oxide (65997-17-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 10/28/2024

### Full text of hazard classes and H-statements

|      |                  |
|------|------------------|
| H350 | May cause cancer |
|------|------------------|

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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