

SMOOTH PA

SDS Record Number: CSSS-TCO-010-230895

Section 1 Product and company identification

1 Identification of the material:

SMOOTH PA

2 Identified uses:

3D Printing Filament

3 Details of the supplier of the safety data sheet:

Supplier(Manufacturer): JF Polymers (Suzhou) Co., Ltd.
Address: Haicheng Industrial Park, Bldg 7, Changshu Economic Development Zone (CEDZ), Changshu, Jiangsu Province 215513, China
Contact person(E-mail): zhenggang.cai@jfpolymers.com
Telephone: +86-512-52058005

4 Emergency telephone Number: +86-512-52058005

Section 2 Hazards Identification

1. Classification of the substance or mixture:

2.1.1 Classification:

REGULATION (EC) No 1272/2008

Hazard classes/Hazard categories

Hazard codes

N/A

N/A

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

| Chemical Name | Registration No. | CAS No. | EC No. | Concentration | Classification |
|----------------------|------------------|-----------|-----------|---------------|----------------|
| Chopped Carbon Fiber | N/A | 7440-44-0 | 231-153-3 | 20-30% | Not Classified |

Section 4 First aid measures

1. Description of first aid measures:

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

1.1 In case of inhalation:

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.

1.2 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.

1.3 In case of eyes contact:

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

1.4 In case of ingestion:

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

2. Most important symptoms and effects, both acute and delayed:

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

3. Indication of any immediate medical attention and special treatment needed:

Symptomatic treatment.

Section 5 Firefighting measures

1. Extinguishing media:

Suitable extinguishing media:

Use extinguishing agents appropriate for surrounding fire.

Unsuitable extinguishing media:

Not available.

2. Special hazards arising from the substance or mixture

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

3. Advice for firefighters:

Wear self-contained breathing apparatus for fire fighting if necessary.

Section 6 Accidental release measures

1. Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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

For emergency responders:

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

2. Environmental Precautions:

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

3. Methods and material for Containment and Cleaning up:

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

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

1. Precautions for safe handling:

Protective measures:

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.

Conditions for safe storage, including any incompatibilities:

Store in cool place. 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.

Specific end use(s):

Not available.

Section 8 Exposure Controls/Personal Protection

1. Control parameters:

Occupational exposure limits:

| Country | Substance | EINECS No. | CAS No. | Occupational Exposure Limit Value (8-hour reference period) | | Occupational Exposure Limit Value (15-minute reference period) | | |
|---------|---|------------|-----------|---|--------------------|--|--------------------|--------|
| | | | | ppm | mg/ m ³ | ppm | mg/ m ³ | Note |
| Ireland | Graphite total inhalable dust respirable dust | 231-153-3 | 7440-44-0 | - - | 10 4 | - - | - - | - - |

Additional exposure limits under the conditions of use:

Not available.

DNEL/DMEL and PNEC-Values:

Not available.

2. Exposure controls:

2.1 Appropriate engineering controls:

Use adequate ventilation to keep airborne concentrations low

2.2 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.

2.3 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:

Appearance:

Solid

Colour:

Black

Odour:

Odorless

Section 9 Physical and chemical properties

1 Information on basic physical and chemical properties:

| | |
|------------------------------------|---------------|
| Appearance: | Solid |
| Colour: | Black |
| Odour: | Odorless |
| Odour threshold: | Not available |
| pH: | Not available |
| Melting point/range (°C): | 179°C |
| Boiling point/range (°C): | Not available |
| Flash point (°C): | Not available |
| Evaporation rate: | Not available |
| Flammability limit - lower (%): | Not available |
| Flammability (solid, gas): | Not available |
| Ignition temperature (°C): | Not available |
| Upper/lower explosive limits: | Not available |
| Vapour pressure (20°C): | Not available |
| Vapour density: | Not available |
| Relative Density: | 1.02 |
| Bulk density (kg/m ³): | Not available |
| Water solubility (g/l): | Insoluble |
| n-Octanol/Water (log Po/w): | Not available |
| Auto-ignition temperature: | Not available |
| Decomposition temperature: | Not available |
| Viscosity, dynamic (mPa.s): | Not available |
| Explosive properties: | Not available |
| Oxidising properties: | Not available |

2 Other information:

| | |
|---|---------------|
| Fat solubility(solvent– oil to be specified) etc: | Not available |
| Surface tension: | Not available |
| Dissociation constant in water(pKa): | Not available |
| Oxidation-reduction Potential: | Not available |

Section 10 Stability and reactivity

| | |
|-------------------------------------|---|
| Reactivity: | The substance is stable under normal storage and handling conditions. |
| Chemical stability: | Stable at room temperature in closed containers under normal storage and handling conditions. |
| Possibility of hazardous reactions: | No dangerous reactions known. |
| Conditions to avoid: | Incompatible materials. |
| Incompatible materials: | Strong oxidizing agents. |
| Hazardous decomposition products: | Carbon oxides. |

Section 11 Toxicological information

1 Information on toxicological effects:

| | |
|------------------------------------|----------------|
| Acute toxicity: | |
| ATEmix(oral): | Not available |
| 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 |

Section 12 Ecological information

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:

Not available

NOEC(Fish):

Not available

NOEC(Crustacea):

Not available

EC50(Algae/aquatic plants):

Not available

2 Persistence and degradability:

Not available

3 Bioaccumulative potential:

Not available

4 Mobility in soil:

Not available

5 Results of PBT and vPvB assessment:

Not available

6 Other adverse effects:

Not available

Section 13 Disposal considerations

Waste treatment methods:

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

Section 14 Transport information

| | Land transport (ADR/RID) | Inland waterways (ADN) | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|--|-----------------------------|---------------------------|-------------------------|------------------------------|
| UN number | Not regulated | Not regulated | Not regulated | Not regulated |
| UN Proper shipping name | Not regulated | Not regulated | Not regulated | Not regulated |
| Transport hazard Class(es) | Not regulated | Not regulated | Not regulated | Not regulated |
| Packing group | Not regulated | Not regulated | Not regulated | Not regulated |
| Environmental hazards | No | No | No | No |
| Special precautions for user | See section 2.2 | See section 2.2 | See section 2.2 | See section 2.2 |
| Transport in bulk according to Annex II of Marpol and the IBC Code | Not regulated | Not regulated | Not regulated | Not regulated |

Section 15 Regulatory information

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

Relevant information regarding authorization:

Not applicable.

Relevant information regarding restriction:

Not applicable.

Other EU regulations:

Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations:

Not applicable

Section 15 Regulatory information

Indication of changes:

Date of this revision: Oct 29 2020

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

Key literature references and sources for data

ECHA Registered substances data

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.