

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Polymaker™ PLA Pro
Nanoform nanoform is Not covered by this product

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses 3D Printing Filament
Uses advised against no data available

1.3. Details of the supplier of the safety data sheet

Details of the supplier
Company JF Polymers(Suzhou) Co., Ltd.
Address No.7-1, Xinggang East Road, Changshu City, Jiangsu Province, China
Telephone +86-512-52058005
Email support@Polymaker.com

1.4. Emergency telephone number

Emergency telephone number +86-512-52058005
Opening hours Monday to Friday, 9 am-5 pm (Standard time zone: UTC/GMT+8 hours).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. CHS classification

Not classified.

2.1.2. Additional information

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictogram(s) No hazard pictogram.
Signal word No signal word
Hazard statement(s) none
Precautionary statement(s) none
Supplemental Hazard information not applicable

2.3. Other hazards

Not applicable

SECTION 3: Composition/information on ingredients

Substances/Mixture: Article

This product does not contain hazardous ingredients above cut-off value according to WHS Regulations 2022.

Chemical name	CAS number	EC number	Classification according to Regulation (EC)No 1278/2008(CLP)	% [weight]	SCL, M-factor, ATE
Polylactic acid	/	-	Not classified.	70-90	-
Calcium carbonate	471-34-1	207-439-9	Not classified.	1-5	-

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following in/gestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

Self-protection of the first aider

Wear protective equipment. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use dry chemical, carbon dioxide.

Unsuitable extinguishing media

no data available

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

no data available

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 HAZCHEM Code

None

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapors. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public water.

6.3. Methods and materials for containment and cleaning up

Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4. Reference to other sections

For disposal suggestions see section 13. For exposure controls / personal protection suggestions see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2. Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

7.3. Specific end use(s)

Main uses of the chemical are mentioned in section 1.2. No other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Exposure limits (TWA, Au): Not assigned for components.

Biological limit values:

No biological exposure limits noted for the ingredients.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk- elimination area.

8.2.2. Individual protection measures, such as personal protective equipment

- Eye/face protection

Wear tightly fitting safety goggles if necessary.

- Skin protection

No special protection required.

- Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

- Thermal hazards

wear suitable protective workwear to prevent from thermal hazards

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Colour	Various colours.
Odour	not applicable
Melting point/freezing point	150-170°C.
Boiling point or initial boiling point	not applicable
Flammability	not flammable
Lower and upper explosion limit	no data available
Flash point	not applicable
Auto-ignition temperature	not applicable
Decomposition temperature	not applicable
pH	not applicable
Kinematic viscosity	not applicable
Solubility	not applicable
Partition coefficient n-octanol/water	not applicable
Vapour pressure	not applicable
Density and/or relative density	not applicable
Density	1,2-1,3g/cm ³
Solubility(H ₂ O)	insoluble
VOC(EC)	no data available
Particle characteristics	no data 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.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Incompatible materials. Extreme temperature.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂)

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

L50 (Oral, Rat) : Not available
L50 (Dermal, Rat) : Not available
L50 (Inhalation, Rat) : Not available

Skin corrosion/irritation

No data available

Serious eye damage/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

Summary of evaluation of the CMR properties

This product has no known adverse effect on human health

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

The substance/mixture has no endocrine disrupting properties.

11.2.2. Other information

no data available

SECTION 12: Ecological information

12.1. Toxicity

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

12.2. Persistence and degradability

no data available

12.3. Bioaccumulative potential

no data available

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

This mixture does not meet the PBT criteria of REACH regulation, annex XIII 12.6.

12.6. Endocrine disrupting properties

The mixture has no endocrine disrupting properties.

12.7. Other adverse effects

no other adverse environment effects (e.g. ozone depetion, photochemical ozone creation potential, endocrine disruption) are expected from this product

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1. UN number or ID number

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

14.2. UN proper shipping name

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

14.3. Transport hazard class(es)

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

14.4. Packing group

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

14.5. Environmental hazards

ADR/RID: No

IMDG: No

IATA: No

14.6. Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

Not applicable

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

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