

SAFETY DATA SHEETS

According to the Work Health and Safety Regulations 2022 (Safe Work Australia) and the National Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals

SDS number: PL-XC-2026-AU-004

Creation Date: Jun. 25, 2026 | Revision Date: Jun. 25, 2026

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

1.1 Product identifier

Product name	Polymaker HT-PLA Pro
Product Identification Numbers (PIN)	—
Other names	—
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
Restrictions on use	—
Uses advised against	no data available

1.3 Details of the supplier of the safety data sheet

Company	JF Polymers(Suzhou) Co., Ltd.
Address	No.7-1, Xinggang East Road, Changshu City, Jiangsu Province, China
ABN / Business No.	—
Telephone	+86-512-52058005
Email	support@polymaker.com

1.4 Importer (Australia)

Company name	To be filled by local Australian importer
Address	—
Contact person (E-mail)	—
Telephone	—
Emergency number	—

Per WHS Act 2011, an Australian importer must be identified. Leave blank if not yet appointed.

1.5 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 GHS 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 WHS Regulations 2022 (Safe Work Australia) and GHS 7 (UN Rev. 7)

Pictogram(s)	No hazard pictogram.
Symbol(s)	No symbol.
Signal word	No signal word
Hazard statement(s)	none
Precautionary statement(s)	none
Supplemental Hazard information (EUH)	not applicable
Labeling of special preparations	none

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2.3 Other hazards which do not result in classification

Product as supplied is a polymer article; hazardous ingredients are encapsulated in polymer matrix.

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	INDEX number	Classification (WHS / GHS 7)	% [weight]	M-factor (a/c)	SCL / ATE	H-codes
Polylactic acid (PLA)	9051-89-2	—	—	Not classified	60-70	—	—	—
Polybutylene succinate (PBS)	25777-14-4	—	—	Not classified	10-20	—	—	—
Calcium carbonate	471-34-1	—	—	Not classified (per ECHA Annex VI — not harmonized)	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 ingestion

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

HAZCHEM Code None

HAZCHEM Code is an emergency action code used by the Australian emergency services for the initial response to a transport or storage emergency involving the product. "None" indicates the product is not classified as dangerous goods under the Australian Dangerous Goods Code.

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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 (WEL, Safe Work Australia, Nov 2025)

Exposure limits (WEL TWA, Au): See table below.

WES (Workplace Exposure Standards, 2024-05-23) remain valid during the transitional period until 30 November 2026, after which WEL takes full effect. Notations: **RSEN** (respiratory sensitiser) / **DSEN** (dermal sensitiser) / **Ototoxic** (noise interaction).

Biological limit values: No biological exposure limits noted for the ingredients.

Ingredient	CAS No.	WEL TWA (mg/m³)	WEL STEL (mg/m³)	ACGIH TLV (mg/m³)	Notation
Polylactic acid (PLA)	9051-89-2	10	—	—	—
Polybutylene succinate (PBS)	25777-14-4	—	—	—	—
Calcium carbonate	471-34-1	10	—	—	—

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.
8.2.2 AS/NZS PPE standards	Eye protection: AS/NZS 1336 / AS/NZS 1337. Gloves: AS/NZS 2161. Respirators: AS/NZS 1715 / AS/NZS 1716.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property	Value
Physical state	Solid.
Colour	Various (depends on masterbatch)
Odour	not applicable
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	1.24 g/cm ³
Density	1.24 g/cm ³
Specific Physical Form	Filament
Solubility(H ₂ O)	insolube
VOC(EC)	no data available
Particle characteristics	no data available
Solids contents	no data available
Molecular Formula	not applicable
Molecular Weight	not applicable
Nanoparticles	This material does not contain nanoparticles.

备注 : As an organic polymer, this product exhibits physical combustibility. When exposed to ignition sources or extremely high temperatures, it will burn. Above its decomposition temperature, the product will ignite and sustain combustion, releasing carbon oxides and other thermal decomposition products (see Sections 5 and 10).

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)

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SECTION 11: Toxicological information

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

Acute toxicity (Oral, Rat)	LD ₅₀ : Not available
Acute toxicity (Dermal, Rat)	LD ₅₀ : Not available
Acute toxicity (Inhalation, Rat)	LC ₅₀ : 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 Endocrine disrupting properties

The mixture has no endocrine disrupting properties.

12.7 Other adverse effects

No other adverse environment effects (e.g. ozone depletion, 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

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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 ADG (Australian Dangerous Goods Code) - Road/Rail Transport

UN number	Not applicable (non-dangerous good).
UN proper shipping name	Not applicable.
Class/Division	Not regulated (non-dangerous good)
Sub Risk	Not applicable.
Packing group	Not applicable.
Labels required	Not applicable.
Hazchem Code	None
IERG (Initial Emergency Response Guide)	Not applicable
Special precautions	Read safety instructions, SDS and emergency procedures before handling.
Special Provisions	Not applicable.

14.2 IATA (International Air Transport Association)

UN number	Not applicable (non-dangerous good).
UN proper shipping name	Not applicable.
Transport hazard class(es)	Not applicable.
Sub Risk	Not applicable.
Packing group	Not applicable.
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

14.3 IMDG (International Maritime Dangerous Goods)

UN number	Not applicable (non-dangerous good).
UN proper shipping name	Not applicable.
Class/Division	Not regulated
Sub Risk	Not applicable.
Packing group	Not applicable.
Marine Pollutant	No
EmS (Emergency Schedule)	Not applicable
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

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

Not applicable.

SECTION 15: Regulatory information

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

Not applicable

15.2 National regulations (Australia)

Australia Medicines & Poisons Schedule	Poisons schedule number not allocated.
High Volume Industrial Chemicals (HVIC)	Not listed.
Importation of Ozone Depleting Substances	Not listed.
National Pollutant Inventory (NPI) substance reporting list	Not listed.
Prohibited Carcinogenic Substances	Not regulated.
Prohibited Substances (NOHSC:1005 (1994) as amended)	Not listed.

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Restricted Importation of Organochlorine Chemicals	Not listed.
Restricted Carcinogenic Substances	Not regulated.

15.3 International regulations

Stockholm Convention	Not applicable.
Rotterdam Convention	Not applicable.
Kyoto Protocol	Not applicable.
Montreal Protocol	Not applicable.
Basel Convention	Not applicable.

15.4 Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS, formerly AICS) — verified against the downloadable Inventory 9 January 2026 (39,348 CAS)	yes or exempted
Canada	Domestic / Non-Domestic Substances List (DSL) / (NDSL)	yes or exempted
China	Inventory of Existing Chemical Substances in China (IECSC)	yes or exempted
Europe	European Inventory of Existing Commercial/Notified Chemical Substances (EINECS) / (ELINCS)	yes or exempted
Japan	Inventory of Existing and New Chemical Substances (ENCS)	既存化学物質 (exempted) *
Korea	Existing Chemicals List (ECL)	listed or exempted*
New Zealand	New Zealand Inventory	listed or exempted*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	listed or exempted*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	yes or exempted

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

*For Japan ENCS: components listed as 既存化学物質 (existing chemical substances) under 化審法 (Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.); exempt from individual new-substance notification as polymer matrix encapsulation. Verification: supplier attestation + JIS Z 7252:2025 reference.

*For Korea ECL: components listed under K-REACH Existing Chemicals List (ECL) or exempt from individual registration as polymer matrix encapsulation under the Act on the Registration and Evaluation of Chemicals (K-REACH, Act No. 11789). Verification: supplier attestation.

*For New Zealand / Philippines: components are listed or exempt under HSNO Act 1996 (NZ) / DAO 2018-19 (Philippines) as low-hazard polymer product per scope of inventories. Verification: supplier attestation.

15.5 Australian regulatory framework

- Work Health and Safety Regulations 2022 (WHS Reg 2022) — Part 3.1 (Hazardous chemicals), Reg 49 (WEL upper limit), Reg 50 (Air monitoring), Reg 351–352 (Risk management)
- Work Health and Safety Act 2011 — primary duty of care (s 17–19)
- Australian Industrial Chemicals Introduction Scheme (AICIS), Industrial Chemicals Act 2019 (formerly NICNAS / AICS)
- Workplace Exposure Limits (WEL) for Airborne Contaminants — Safe Work Australia, November 2025 (transitional period until 30 November 2026; WES 2024-05-23 remains valid in interim)
- Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code, 7.7 edition)
- Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) — not applicable to this product
- Hazardous Chemicals Information System (HCIS) — Safe Work Australia exposure standards detail

15.6 APVMA and SUSMP (crop protection / veterinary products only)

APVMA Approval No	Not applicable (non-crop-protection product)
SUSMP Schedule	Not applicable (non-poison-scheduled product)
Product registration type	Not applicable

Per Agricultural and Veterinary Chemicals Code Act 1994, agricultural and veterinary chemical products must display an APVMA approval number. Leave blank for non-agricultural products.

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15.7 Chemical safety assessment

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

SECTION 16: Other information

16.1 Indication of changes

Version	1.0
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16.2 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.

16.3 Disclaimer

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do not represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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.

16.4 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
ADG	Australian Dangerous Goods (Code)
WHS	Work Health and Safety
AICIS	Australian Industrial Chemicals Introduction Scheme
SWA	Safe Work Australia
TWA	Time Weighted Average (8-hour)
STEL	Short Term Exposure Limit (15-min)
LC ₅₀	Lethal Concentration 50%
LD ₅₀	Lethal Dose 50%
EC ₅₀	Effective Concentration 50%
HAZCHEM	Hazardous Chemical Emergency Action Code (Australia)

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