

Material Safety Data Sheet (MSDS)

Product Name: Modified PLA resin(heat-resistant)

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Revision No.: 2

Date Revision: 2026/3/3

Date of printing:

2026/3/4

1. Identification of the substance/preparation and company

Trade name: Modified PLA resin(heat-resistant)

Industry sector: Applications requiring degradability, extrusion products

Company: Jiangsu Seesunme Technologies Co.,ltd

Address: Building F, No.61 Fuyang Road, Tianning District, Changzhou City, Jiangsu Province

E-mail for product safety: james@seesunme.com

Emergency Phone No.: 13809074488

2. Hazards Identification

According to GHS standard, the product does not need to be classified.

The product does not need to add a hazard warning label.

No special hazards.

3. Composition/Information on ingredients

Chemical composition:

Name	CAS NO	% w/w
Poly(lactic acid	9051-89-2	≥40%
polybutylene adipate terephthalate	60961-73-1	≤20%
Poly(butylene succinate)	25777-14-4	≤20%
Talcum	14807-96-6	≤20%

Dangerous Components: None

4. First Aid Measures

General Informations:

No special measures necessary.

After Inhalation:

Move to fresh air.Get medical attention immediately if symptoms occur.

Skin contact:

After contact with melt polymer wash immediately with cold water without trying to take off the solidified material from the skin.Get medical attention immediately if symptoms occur.

Eye contact:

Take off the material and wash immediately with cold water at least for 15 minutes.
Get medical attention immediately if symptoms occur.

After ingestion:

Rinse mouth.Get medical attention immediately if symptoms occur.

5. Fire Fighting Measures :

Extinguishing Media:

Water spray - foam - carbon dioxide - dry powder.

Extinguishing Media that must not be used for safety reasons:

Do not use a solid water stream as it may scatter and spread fire.

Special Hazards from the substance itself, its combustion products or from its vapours:

NITROGEN OXIDES (NO_x), CARBON MONOXIDE (CO), CARBON DIOXIDE (CO₂).

Do not inhale the fumes.

Special protective equipment for firefighting:

Wear full protective suite.Use self-contained breathing apparatus.

6. Accidental Release Measures :

Personal precautions:

Avoid inhalation. Sources of ignition should be kept well clear.

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Environmental precautions:

Should not be released into the environment.Prevent further leakage or spillage if safe to do so.

Methods for cleaning up/taking up:

Avoid dust formation.Sweep up and shovel into suitable containers for disposal.

Following product recovery, flush area with water.

7. Handling and Storage :

Advise on safe handling:

Ensure good general ventilation in the workplace: local exhaust ventilation may be necessary, especially when emptying containers.Avoid the formation of powders.

Advise on protection against fire and explosion:

Take precautions against accumulation of electrostatic charge.

Requirements for storage rooms and vessels:

Keep container tightly closed in a cool, well-ventilated place.

Protect from moisture and from direct sunlight.

Advise on storage compatibility:

Keep container tightly closed and dry,Protect against moisture. Avoid extreme heat. Avoid direct sunlight.

Avoid all sources of ignition: heat, sparks, open flame.

8. Exposure Controls/Personal Protection :

General protective measures:

Observe the usual precautions for handling chemicals.

Hygiene measures:

The usual industrial hygiene precautions must be taken during work.In particular do not drink,eat or smoke during handling of the product and clean hands and face during work intervals and after work.

Respiratory protection:

Do not inhale the fumes from melt material.In case of insufficient ventilation or pro-longed exposure use respiratory protection equipment.

Respiratory protection:

Do not inhale the fumes from melt material.In case of insufficient ventilation or pro-longed exposure use respiratory protection equipment.

Hand protection:

Leather gloves and nitrile rubber gloves.

Eye protection:

Safety glass.

9. Physical and chemical properties

Form:	Granules
Colour:	white
Odour:	odourless
Melting Point:	150-180°C
Boiling point:	Not applicable
Flash point:	> 280°C
Self-ignition temperature:	Not applicable
Flammability: :	not highly flammable
Water solubility:	Insoluble
Vapour pressure:	Not applicable

10. Stability and Reactivity :

Thermal decomposition: > 230°C

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Hazardous reactions:

No hazardous reactions when stored and handled according to prescribed instructions.

Hazardous decomposition products:

No decomposition if used as intended.

Conditions to avoid:

Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open flame.

Materials to avoid:

Strong oxidizing agents, acids and bases.

11. Toxicological Informations :

Oral Toxicity LD50 (RAT):

> 2,000 mg/kg (OECD Guideline 423)

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion.

The product hasnot been tested.The information is derived from the properties of the individual component.

Note that the component is carried into granules (it is improbable that can escape from them)

Assessment of reproduction toxicity:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

12. Ecological Information :

Ecotoxicity effects:

Contains no substances known to be hazardous for the environment.

Fish toxicity:

No information available.

Remarks:

Not soluble in water, the product can be separated mechanically.

Do not allow to enter drains or waterways.

13. Disposal consideration :

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

14. Transport Information :

Rail and Road transport :

Not dangerous goods

River transport :

Not dangerous goods

Sea transport :

Not dangerous goods

Air transport :

Not dangerous goods

Further indications :

Post transport is admissable

15. Regulatory Information :

Not classified as a dangerous good under transport regulations

16.Other informations:

The data are based on the current state of our knowledge,and are intended to describe the product with regard to the requirements of safety.The data should not be taken to imply any guarantee of a particular or general specification. It is responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use.We do not accept responsibility for any harm caused by the use of the information. In all cases,our general conditions of sale apply.

End of Safety Data Sheet

Jiangsu Seesunme Technologies Co.,ltd
Contacts: 13809074488/james@seesunme.com

Technical Data Sheet

Product	Modified PLA resin(heat-resistant)		
Application	Applications requiring degradability, extrusion products		
Reference Processing Conditions	Drying condition: 75℃ 4-8hrs Processing Temperature:160-180℃		
Items	Unit	Parameter Value	Method
Melt Flow	g/10min	0~5	ASTM D1238
Density	g/cm ³	1.20~1.30	ASTM D792
Moisture Content	ppm	≤ 1500	H&B
Appearance		Uniform particles, no impurities	Visual
Package	kg/bag	25	H&B

Note:

This report is based on our experience. For special purposes, the user shall determine the applicability of the product according to the actual production conditions, and we will not provide additional guarantee