Safety Data Sheet (SDS)

According to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Product Name: PLA 2.0

Revision Date: 2025.11.26

Initial Date: 2025.5.26

Applicable Standards: GB/T 16483 and GB/T 17951

SDS No.: **SLFDM2105060**

Version: 5.1

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name: PLA 2.0

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Supplier Details of the Safety Data Sheet

Manufacturer/Supplier: Guangdong Sunlu Technology Co., Ltd.

Address: Sunlu Technology Park, southwest of the intersection of Huanzhou North Road and Tanzhou Avenue, Qicun, Tanzhou Town, Zhongshan City, Guangdong Province

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SECTION 2 - HAZARD IDENTIFICATION

	Min	Max
Flammability	1	0=Minimum
Toxicity	0	1=Low
Body Contact	0	2=Moderate
Reactivity	1	3=High
Chronic Effects	0	4=Extreme

GHS Classification

Not Applicable

Label Elements:

GHS Label Elements

Not Applicable

Signal Word: Not Applicable

SECTION 3 · COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS No.	EC No.	Content (%)
Polypropylene	9003-07-0	--	66
Ethylene-Octene Copolymer (EOC)	26221-73-8	--	20
Additives	--	--	14

SECTION 4 - FIRST-AID MEASURES

Ingestion

·Give a glass of water immediately.

·First aid measures are generally not required. If in doubt, contact a poison control center or doctor.

Eye Contact (EYE)

·If the product comes into contact with the eyes, rinse immediately with clean water.

·If irritation persists, seek medical attention.

·If contact lenses need to be removed after an eye injury, this must be done by a professional.

Skin Contact (SKIN)

·If the product comes into contact with skin or hair:

·Immediately rinse skin and hair with clean water (soap is preferable).

·If irritation occurs, seek medical advice.

Inhalation (INHALATION)

·If vapors or combustion products are inhaled, move immediately to fresh air.

·Usually no further measures are required.

·Indication of immediate medical attention and special treatment needed

·Treat symptomatically if symptoms occur

SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing Media

·Foam

·Dry chemical powder

·BCF (where regulations permit)

·Carbon dioxide (CO_2)

Fire-Fighting Methods

·Notify the fire department and state the location and nature of the hazard.

·Wear respiratory protection and protective gloves.

·Take all practicable measures to prevent spilled material from entering drains or waterways.

·Use fine water spray to control the fire and cool adjacent areas

Fire/Explosion Hazard

·Combustible solid; although it can burn, the flame does not spread easily

·Organic powders, when suspended in air or other supporting gases within certain concentration ranges, regardless of particle size or shape, may form explosive dust-air mixtures, causing fires or dust explosions (including secondary explosions)

Incompatible Fire-Fighting Conditions

Avoid contact with oxidizing agents (such as nitrates, strong oxidizing acids, bleach, pool chlorine, etc.) to prevent combustion or explosion

SECTION 6 · ACCIDENTAL RELEASE MEASURES

Small Spills

·Usually not applicable

Large Spills

·Usually not applicable

For recommendations on personal protective equipment, see Section 8 of this Safety Data Sheet (SDS).

SECTION 7 - HANDLING AND STORAGE

Handling Procedures

·Limit all unnecessary personal contact.

·Wear protective clothing when there is a risk of exposure.

·Use in a well-ventilated area.

·Avoid contact with incompatible substances.

·Store in the original packaging container.

·Keep the container tightly closed.

·Store in a cool, dry and well-ventilated place.

Suitable Containers

·Polyethylene or polypropylene containers.

·Ensure all containers are clearly labeled and free from leaks.

·Package according to the manufacturer·s recommended packaging method.

Storage Incompatibilities

·Avoid contamination of water sources, food, feed or seed.

·Avoid reaction with oxidizing agents.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Controls

Appropriate Engineering Controls:

Engineering controls are used to eliminate hazards or establish a barrier between workers and hazards. Well-designed engineering controls are generally very effective in protecting workers and generally do not depend on worker behavior, thereby providing a high level of protection.

The basic types of engineering controls include: process controls, which reduce risk by changing work activities or processes; containment and/or isolation of emission sources, which physically isolates specific hazards from workers;

ventilation controls, which strategically introduce or remove air from the work environment to control concentrations of hazardous substances.

Personal Protection

Eye and Face Protection

Safety glasses with side shields.

Chemical splash goggles.

Contact lenses may present a special hazard; soft contact lenses may absorb and concentrate irritants.

A written policy on wearing or restricting contact lenses should be established for each workplace or task.

Skin Protection

See ·Hand Protection· below.

Hand/Foot Protection

Selection of suitable gloves depends not only on the material but also on other quality indicators provided by each manufacturer.

If exposure involves a mixture of several chemicals, the resistance of the glove material cannot be calculated in advance and must be tested before actual use.

Breakthrough times of gloves for specific substances should be provided by the glove manufacturer and strictly followed in the final selection.

The suitability and durability of glove types depend on the specific conditions of use.

Body Protection

See ·Other Protection· below.

Other Protection

Coveralls.

Polyvinyl chloride (P.V.C.) apron.

Barrier protection cream (skin cream, protective cream, etc.).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Item	Description/Value
State	Solid
Melting Range (°C)	150-160
Boiling Range (°C)	No data
Flash Point (°C)	No data
Decomposition Temperature (°C)	No data
Auto-Ignition Temperature (°C)	No data
Upper Explosive Limit (%)	No data
Lower Explosive Limit (%)	No data
Volatile Components (%vol)	No data
Solubility in Water (g/L)	Insoluble in Water
pH Value (1% Solution)	No data
pH Value (Neat)	No data
Printing Temperature (°C)	240-260
Heated Bed Temperature (°C)	40
Density (g/cm3)	1.01
Heat Distortion Temperature (°C, 0.45 MPa)	65
Melt Flow Rate (g/10 min)	4.4 (190℃/2.16kg)
Tensile Strength (MPa)	18
Elongation at Break (%)	900
Flexural Strength (MPa)	18
Flexural Modulus (MPa)	600

SECTION 10 - STABILITY AND REACTIVITY

Reactivity

See Section 7.

Chemical Stability

Unstable in the presence of incompatible materials.

The product is considered stable.

Hazardous polymerization will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Relevant LD/LC50 values for classification: No data

Primary Irritant Effects

On Skin: No data

On Eyes: No data

Inhalation: No data

Sensitization (allergic reactions): No data

SECTION 12 - ECOLOGICAL INFORMATION

Component	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
Additives	Low	Low	Low	Low
PP	No Data Available	No Data Available	No Data Available	No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Laws and regulations relating to waste disposal may vary by country, province/state or region.

Each user should refer to the applicable laws and regulations in their location for disposal.

In some regions, certain wastes are subject to tracking requirements.

It is generally recommended to follow the ·waste management hierarchy·; users should familiarize themselves with the following levels of treatment:

Reduction

Reuse

Recycling

Disposal (only when the preceding options are not possible)

If the material has not been used or contaminated (and remains suitable for its intended use), it may be recycled.

SECTION 14 - TRANSPORT INFORMATION

Required Labels:

(No special labeling requirements)

Marine Pollutant: No

Transport Classification for Dangerous Goods:

Not subject to dangerous goods transport regulations

Applicable Regulations: ADR, IATA, IMDG, ADN

SECTION 15 - REGULATORY INFORMATION

Relevant Regulations:

This product must be handled and used in accordance with applicable local regulations.

SECTION 16 - OTHER INFORMATION

This information has been compiled based on the information currently available to us.

However, this information does not constitute a guarantee of product characteristics or a legally binding contractual commitment.

***End ***