

# Safety Data Sheet (SDS)

## According to GHS

File No.: MC20250101-E02

Date: Jan 01, 2025

Ver: 1.0

### Section 1 - Identification of the substance/preparation and of the company/undertaking

#### Product identifier



**Product name:** PLA+ filament (PLA filament)**File Numbers :** MC20250101-E02

#### Relevant identified uses of the substance or mixture and uses advised against

#### Details of the supplier of the safety data sheet

**Supplier :** International Products Sourcing Group Inc.**Address:** 4119 Leap Road, Hilliard, OH 43026, U.S.A.**Tel:** +1 (614) 850-3670**Emergency number :** +1 (614) 850-3670**E-mail :** support@microcenter.zendesk.com**Further information obtainable from:** International Products Sourcing Group Inc.

### Section 2 - Hazards Identification

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

#### GHS classification

Not Applicable

#### Label elements:

#### GHS label elements

Not Applicable

#### SIGNAL WORD:

Not Applicable

### Section 3 –Composition/Information on Ingredients

Ingredient Name	CAS No.	EC No.	Content (%)
L-Lactide	4511-42-6	224-832-0	5

DL-Lactide	95-96-5	202-468-3	5
Poly (DL- lactide )	51063-13-9	--	35
Poly lactide resin	9051-89-2	618-575-7	55

## Section 4 - First Aid Measures

### INGESTION

- Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

### EYE

If this product comes in contact with eyes:

- Wash out immediately with water.
- If irritation continues, seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

### SKIN

If skin or hair contact occurs:

- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

### Inhalation

- If fumes, aerosols or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.

### Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.

## Section 5 - Firefighting Measures

### EXTINGUISHING MEDIA

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

### FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use water delivered as a fine spray to control fire and cool adjacent area.

### FIRE/EXPLOSION HAZARD

- Combustible solid which burns but propagates flame with difficulty.

- Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).

#### **FIRE INCOMPATIBILITY**

- Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc.as ignition may result

### **Section 6 –Accidental Release Measures**

#### **MINOR SPILLS**

- Generally not applicable

#### **MAJOR SPILLS**

- Generally not applicable

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **Section 7 - Handling and Storage**

#### **PROCEDURE FOR HANDLING**

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Avoid contact with incompatible materials.
- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.

#### **SUITABLE CONTAINER**

- Multi-ply paper bag with sealed plastic liner or heavy gauge plastic bag.
- NOTE: Bags should be stacked, blocked, interlocked, and limited in height so that they are stable and secure against sliding or collapse. Check that all containers are clearly labelled and free from leaks.

Packing as recommended by manufacturer.

#### **STORAGE INCOMPATIBILITY**

Avoid contamination of water, foodstuffs, feed or seed.

- Avoid reaction with oxidising agents

### **Section 8 - Exposure Controls, Personal Protection**

#### **EXPOSURE CONTROLS**

##### **Appropriate engineering controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.

Well-designed engineering controls can be highly effective in protecting workers and will typically be

independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

### **Personal protection**



### **Eye and face protection**

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

### **Skin protection**

See Hand protection below

### **Hands/feet protection**

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Suitability and durability of glove type is dependent on usage.

### **Body protection**

See Other protection below

### **Other protection**

- Overalls.
- P.V.C. apron.
- Barrier cream.

## **Section 9 - Physical and Chemical Properties**

### **Information on basic physical and chemical properties**

**Odour**

**Odorlessness**

**Form**

Solid

**Melting Range (°C)**

No data

<b>Boiling Range (°C)</b>	No data
<b>Flash Point (°C)</b>	No data
<b>Decomposition Temp (°C)</b>	No data
<b>Autoignition Temp (°C)</b>	No data
<b>Upper Explosive Limit (%)</b>	No data
<b>Lower Explosive Limit (%)</b>	No data
<b>Volatile Component (%vol)</b>	No data
<b>Solubility in water (g/L)</b>	Insoluble in water
<b>p H (1% solution)</b>	No data
<b>p H (as supplied)</b>	No data
<b>Print Temp (°C)</b>	205-225
<b>Bed Temp(°C)</b>	No heat/ (60-80)
<b>Density(g/cm<sup>3</sup>)</b>	1.24
<b>Distortion Temp (°C,0.45MPa)</b>	52
<b>Melt Flow Index (g/10min)</b>	2 (190°C/2.16kg)
<b>Tensile Strength (MPa)</b>	60
<b>Elongation at Break (%)</b>	29
<b>Bending Strength (MPa)</b>	87
<b>Flexural Modulus (MPa)</b>	3642
<b>IZOD Impact Strength (KJ/m<sup>2</sup>)</b>	7

## **Section 10 - Stability and Reactivity**

### **Reactivity**

See section 7

### **Chemical stability**

- Unstable in the presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerisation will not occur.

## **Section 11 - Toxicological Information**

### **Information on toxicological affects**

#### **Acute Toxicity**

#### **LD/LC50 values relevant for classification**

No data.

#### **Primary irritant effect**

#### **On the skin**

No data.

**On the eyes**

No data.

**Inhaled**

No data.

**Sensitization:** No data.**Section 12 - Ecological Information**

<b>Ingredient</b>	<b>Persistence: Water/Soil</b>	<b>Persistence: Air</b>	<b>Bioaccumulation</b>	<b>Mobility</b>
L-Lactide	LOW	LOW	LOW	LOW
DL-Lactide	LOW	LOW	LOW	LOW
Poly (DL- lactide )	No Data available	No Data available	No Data available	No Data available
Poly lactide resin	No Data available	No Data available	No Data available	No Data available

**Section 13 - Disposal Considerations**

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

**Section 14 - Transport Information****Labels Required**

Marine Pollutant: NO

**NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: ADR, IATA, IMDG, ADN****Section 15 - Regulatory Information****REGULATIONS**

The product needs to follow local regulations.

**Section 16 - Other Information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Section 17-List of products applicable to this SDS sheet**

SKU	DESCRIPTION
989392	1.75MM PLA+ FILAMENT,GREY,1KG/ROLL
989335	1.75MM PLA+ FILAMENT,NATURAL,1KG/ROLL
988998	1.75MM PLA+ FILAMENT,BLUE,1KG/ROLL
989400	1.75MM PLA+ FILAMENT,RED,1KG/ROLL
989269	1.75MM PLA+ FILAMENT,BLACK,1KG/ROLL
989319	1.75MM PLA+ FILAMENT,PINK,1KG/ROLL
989418	1.75MM PLA+ FILAMENT,NEON GREEN,1KG/ROLL
989442	1.75MM PLA+ FILAMENT,YELLOW,1KG/ROLL
989384	1.75MM PLA+ FILAMENT,PURPLE,1KG/ROLL
989376	1.75MM PLA+ FILAMENT,ORANGE,1KG/ROLL
989467	1.75MM PLA+ FILAMENT,GREEN,1KG/ROLL
989020	1.75MM PLA+ FILAMENT,MAGENTA,1KG/ROLL
989012	1.75MM PLA+ FILAMENT,TRUE RED,1KG/ROLL
989426	1.75MM PLA+ FILAMENT,WHITE,1KG/ROLL
989004	1.75MM PLA+ FILAMENT,GOLD,1KG/ROLL
989459	1.75MM PLA+ FILAMENT,SILVER,1KG/ROLL
989327	1.75MM PLA+ FILAMENT,BROWN,1KG/ROLL
989350	1.75MM PLA+ FILAMENT,LIGHT BLUE,1KG/ROLL
989095	1.75MM PLA+ FILAMENT,LUMINOUS GREEN,1KG/ROLL
989103	1.75MM PLA+ FILAMENT,LUMINOUS BLUE,1KG/ROLL
989111	1.75MM PLA+ FILAMENT,DARK BLUE,1KG/ROLL
989129	1.75MM PLA+ FILAMENT,OLIVE GREEN,1KG/ROLL
989038	1.75MM PLA+ FILAMENT,BONE WHITE,1KG/ROLL
310904	1.75MM PLA+ FILAMENT,RASPBERRY RED,1KG/ROLL
989277	2.85MM PLA+ FILAMENT,BLACK,1KG/ROLL
989434	2.85MM PLA+ FILAMENT,WHITE,1KG/ROLL
714808	2.85MM PLA+ FILAMENT,SILVER,1KG/ROLL
714816	2.85MM PLA+ FILAMENT,RED,1KG/ROLL
714659	2.85MM PLA+ FILAMENT,NATURAL,1KG/ROLL
767541	1.75MM PLA+ SPOOLLESS FILAMENT,BLACK,1KG/ROLL
767558	1.75MM PLA+ SPOOLLESS FILAMENT,WHITE,1KG/ROLL
767566	1.75MM PLA+ SPOOLLESS FILAMENT,BONE WHITE,1KG/ROLL
767574	1.75MM PLA+ SPOOLLESS FILAMENT,GREY,1KG/ROLL
767582	1.75MM PLA+ SPOOLLESS FILAMENT,PINK,1KG/ROLL
767590	1.75MM PLA+ SPOOLLESS FILAMENT,MAGENTA,1KG/ROLL
767608	1.75MM PLA+ SPOOLLESS FILAMENT,TRUE RED,1KG/ROLL
767616	1.75MM PLA+ SPOOLLESS FILAMENT,RED,1KG/ROLL
767624	1.75MM PLA+ SPOOLLESS FILAMENT,ORANGE,1KG/ROLL
772178	1.75MM PLA+ SPOOLLESS FILAMENT,NEON GREEN,1KG/ROLL
772095	1.75MM PLA+ SPOOLLESS FILAMENT,BLUE,1KG/ROLL
772012	1.75MM PLA+ SPOOLLESS FILAMENT,YELLOW,1KG/ROLL

772020	1.75MM PLA+ SPOOLESS FILAMENT, GREEN, 1KG/ROLL
772038	1.75MM PLA+ SPOOLESS FILAMENT, OLIVE GREEN, 1KG/ROLL
772087	1.75MM PLA+ SPOOLESS FILAMENT, LIGHT BLUE, 1KG/ROLL
772103	1.75MM PLA+ SPOOLESS FILAMENT, DARK BLUE, 1KG/ROLL
772111	1.75MM PLA+ SPOOLESS FILAMENT, PURPLE, 1KG/ROLL
772129	1.75MM PLA+ SPOOLESS FILAMENT, BROWN, 1KG/ROLL
772137	1.75MM PLA+ SPOOLESS FILAMENT, GOLD, 1KG/ROLL
772145	1.75MM PLA+ SPOOLESS FILAMENT, SILVER, 1KG/ROLL
772152	1.75MM PLA+ SPOOLESS FILAMENT, RASPBERRY RED, 1KG/ROLL
772160	1.75MM PLA+ SPOOLESS FILAMENT, NATURAL, 1KG/ROLL
743088	1.75MM PLA+ FILAMENT, 4 PACK, BLACK, 1KG/ROLL
743096	1.75MM PLA+ FILAMENT, 4 PACK, WHITE, 1KG/ROLL
437855	1.75MM PLA+ FILAMENT, 2 PACK, BLACK, 1KG/ROLL
437863	1.75MM PLA+ FILAMENT, 2 PACK, WHITE, 1KG/ROLL
437871	1.75MM PLA+ FILAMENT, 2 PACK, BLACK+GREY, 1KG/ROLL
437889	1.75MM PLA+ FILAMENT, 2 PACK, GREY, 1KG/ROLL
437897	1.75MM PLA+ FILAMENT, 2 PACK, GREY+WHITE, 1KG/ROLL
437905	1.75MM PLA+ FILAMENT, 2 PACK, BLACK+WHITE, 1KG/ROLL
713289	1.75MM PLA+ FILAMENT, 2 PACK, BLACK+TRUE RED, 1KG/ROLL
713297	1.75MM PLA+ SPOOLESS FILAMENT, 2 PACK, BLACK+WHITE, 1KG/ROLL
713305	1.75MM PLA+ SPOOLESS FILAMENT, 2 PACK, BLACK, 1KG/ROLL
713313	1.75MM PLA+ SPOOLESS FILAMENT, 2 PACK, WHITE, 1KG/ROLL
713321	1.75MM PLA+ FILAMENT, 2 PACK, BLUE+TRUE RED, 1KG/ROLL
713339	1.75MM PLA+ FILAMENT, 2 PACK, BLACK+BLUE, 1KG/ROLL
713347	1.75MM PLA+ FILAMENT, 2 PACK, BONE WHITE, 1KG/ROLL
713354	1.75MM PLA+ FILAMENT, 2 PACK, BLACK+SILVER, 1KG/ROLL
713370	1.75MM PLA+ FILAMENT, 2 PACK, WHITE+TRUE RED, 1KG/ROLL
713388	1.75MM PLA+ FILAMENT, 2 PACK, YELLOW+BLUE, 1KG/ROLL
713396	2.85MM PLA+ FILAMENT, 2 PACK, BLACK+WHITE, 1KG/ROLL
739805	1.75MM PLA+ FILAMENT, CYAN+MAGENTA+YELLOW+WHITE, 1KG/ROLL
782243	1.75MM PLA+ FILAMENT, GREY, 3KG/ROLL
781716	1.75MM PLA+ FILAMENT, BLACK, 5KG/ROLL
781724	1.75MM PLA+ FILAMENT, WHITE, 5KG/ROLL
781690	1.75MM PLA+ FILAMENT, BLACK, 3KG/ROLL
781708	1.75MM PLA+ FILAMENT, WHITE, 3KG/ROLL

\*\*\*End\*\*\*