

# Safety Data Sheet

## Luminy PLA Neat resin

according to JIS Z 7253 : 2019

Product Reference code:TC00003

Issue date: 2022/10/31 Revision date: 2025/02/03

Version: 3.2

### 1. Chemical product and company identification

Name : Luminy PLA Neat resin

Trade name : Luminy® L105  
Luminy® L130  
Luminy® L175  
Luminy® LX105  
Luminy® LX175  
Luminy® LX530  
Luminy® LX575  
Luminy® LX930  
Luminy® LX975  
Luminy® Development Grade  
Luminy® TGR1  
Luminy® TGR2  
Luminy® LX930 CS1  
Luminy® L040  
This SDS covers Luminy® PLA L-grades with the suffix BMB and RMB.

Substance type : Polymer

CAS-No. : 9051-89-2

#### Recommended use of the chemical and restrictions on use

Recommended use : Plastics

Restrictions on use : Pharmaceuticals, Medical device

#### Company information

##### Manufacturer

TotalEnergies Corbion BV  
4203 NS The Netherlands Gorinchem  
Stadhuisplein 70  
T +31 183 695 695  
[pla@totalenergies-corbion.com](mailto:pla@totalenergies-corbion.com)

#### Emergency telephone number

Emergency number : +44 1865 407333 (CareChem24)  
Operating hours 24 hours, 7 days a week

### 2. Hazards identification

#### GHS classification

Physical hazards	Pyrophoric solids	No classification
	Oxidizing solids	No classification

#### Other hazards which do not result in classification

Other hazards which do not result in classification : Warning.  
Potential dust explosion hazard.  
Dust may form explosive mixture in air.

Additional hazards when processed : Dust may form flammable and explosive mixture with air.

### 3. Composition/information on ingredients

Distinction of substance or mixture : Substance

Name	Conc.	Formula	Reference number in the gazette list	CAS-No.
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	(% w/w)		CSCL No.	ISHL No.	
Poly lactide resin	99 – 100	(C6H8O4.C6H8O4.C6H8O4)x	(7)-2537	-	9051-89-2

### 4. First aid measures

#### First aid measures

- First-aid measures general : If you feel unwell, seek medical advice.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.
- Personal Protection in First Aid and Measures : For further information refer to section 8: "Exposure controls/personal protection".

#### Most Important Symptoms/Effects

- Symptoms/effects : None known.  
Non-hazardous substance.

#### Treatment

- Other medical advice or treatment : Treat symptomatically.

### 5. Fire fighting measures

- Suitable extinguishing media : Water spray, Dry powder, Foam
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire
- Fire hazard : No fire hazard.
- Explosion hazard : Dust may form explosive mixture in air.
- Hazardous decomposition products in case of fire : Under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon monoxide, Acetaldehyde
- Firefighting instructions : Evacuate personnel to a safe area.  
Use water spray or fog for cooling exposed containers.  
Move containers from fire area if it can be done without personal risk.  
Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment.  
Self-contained breathing apparatus.  
Complete protective clothing.

### 6. Accidental release measures

#### Personal Precautions, Protective Equipment and Emergency Procedures

##### For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Evacuate unnecessary personnel.  
Ventilate spillage area.  
Avoid dust formation.  
Avoid contact with skin and eyes.  
Do not touch or walk on the spilled product.  
Do not breathe dust.
- Measures in case of dust release : No flames, no sparks. Eliminate all sources of ignition.

##### For emergency responders

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Protective equipment : Do not attempt to take action without suitable protective equipment.  
For further information refer to section 8: "Exposure controls/personal protection".

### Environmental precautions

Environmental precautions : Avoid release to the environment.

### Methods and Equipment for Containment and Cleaning up

For containment : Stop leak without risks if possible.  
Avoid creating or spreading dust.

Methods for cleaning up : Avoid dust formation.  
Shovel or sweep up and put in a closed container for disposal.  
Flush contaminated areas with plenty of water.  
Use non-sparking tools.  
Never return spills in original containers for possible later re-use.

Prevention Measures for Secondary Accidents : No flames, no sparks. Eliminate all sources of ignition.

Other information : Dispose of materials or solid residues at an authorized site.

## 7. Handling and storage

### Handling

Precautions for safe handling : Handle under inert gas. Protect from moisture.  
Wear personal protective equipment.  
Avoid contact with skin and eyes.  
Ensure good ventilation of the work station.  
Keep only in original container.  
Do not handle until all safety precautions have been read and understood.

Hygiene measures : Do not eat, drink or smoke when using this product.  
Always wash hands after handling the product.  
Use good housekeeping practices during storage, transfer, handling, to avoid excessive dust accumulation.  
Wash contaminated clothing before reuse.  
Avoid contact with skin, eyes and clothing.  
Do not breathe dust.

Handling temperature : < 50 °C

Additional hazards when processed : Dust may form flammable and explosive mixture with air.

### Storage

Storage conditions : Keep container tightly closed in a cool, well-ventilated place.  
Protect from moisture.

Incompatible materials : Water, humidity.

Storage area : Store according to local legislation.

Packaging materials : Store always product in container of same material as original container.

Storage temperature : < 50 °C

## 8. Exposure controls / Personal protection equipment

Appropriate engineering controls : Ensure good ventilation of the work station, Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment.

### Protective equipment

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Respiratory protection : No respiratory protection needed under normal use conditions, Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Device	Filter type	Condition	Standard
Dust mask	(FFP2)	Dust protection	EN 149

Hand protection : Protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Protective gloves	Butyl rubber	6 (> 480 minutes)	0.5		EN 374

Eye protection : Safety glasses with side shields

Type	Field of application	Characteristics	Standard
Safety glasses with side shields	Dust		EN 166

Skin and body protection : Long sleeved protective clothing

Type	Standard
Long sleeved protective clothing	

Personal protective equipment symbol(s)



Environmental exposure controls : Avoid release to the environment.

Other information : Handle in accordance with good industrial hygiene and safety procedures, Always wash hands after handling the product, Do not eat, drink or smoke when using this product, Avoid contact with skin, eyes and clothing, Use good housekeeping practices during storage, transfer, handling, to avoid excessive dust accumulation, Wash contaminated clothing before reuse, Do not breathe dust.

## 9. Physical and chemical properties

Physical state	: Solid
Appearance	: Pellet
Colour	: White,Opaque
Odour	: Odourless
pH	: No data available
Melting point	: 130 – 230 °C
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 230 °C
Flammability	: Non flammable.
Vapour pressure	: No data available
Relative density	: No data available
Density	: 1.2 – 1.3 g/cm <sup>3</sup>
Relative gas density	: No data available

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Solubility	: insoluble in water
Partition coefficient n-octanol/water (Log Pow)	: No data available
Explosive limits (vol %)	: Not applicable
Viscosity, kinematic:	: Not applicable
Particle size	: No data available
Particle size distribution	: No data available
Particle shape	: No data available
Particle aspect ratio	: No data available
Particle specific surface area	: No data available

### 10. Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use. Hazardous polymerisation: Will not occur. When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined.
Conditions to avoid	: Above a temperature of: 230°C / 446 °F. Protect from moisture. Avoid raising powdered materials into airborne dust, creating an explosion hazard.
Incompatible materials	: Water, humidity.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### 11. Toxicological information

Acute toxicity (oral)	: Classification not possible
Acute toxicity (dermal)	: Classification not possible
Acute toxicity (inhalation)	: Classification not possible (gas) Not applicable (Vapour) Classification not possible (dust, mist)
Skin corrosion/irritation	: Classification not possible
Serious eye damage/irritation	: Classification not possible
Respiratory sensitization	: Classification not possible
Skin sensitization	: Classification not possible
Germ cell mutagenicity	: Classification not possible
Carcinogenicity	: Classification not possible
Reproductive toxicity	: Classification not possible
STOT-single exposure	: Classification not possible
STOT-repeated exposure	: Classification not possible
Aspiration hazard	: Classification not possible

Luminy PLA Neat resin (9051-89-2)	
Viscosity, kinematic	Not applicable

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## 12. Ecological information

### Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Classification not possible
Hazardous to the aquatic environment, long-term (chronic)	: Classification not possible

### Persistence and degradability

Luminy PLA Neat resin (9051-89-2)	
Persistence and degradability	Hydrolyses in hot water. The hydrolysis product is readily biologically degradable. Compostable and biodegradable according to EN 13432, ASTM D6400 and ISO 17088. Decomposes in contact with (hot) water. The hydrolysis product is S-lactic acid which is readily biodegradable.

### Bioaccumulative potential

Luminy PLA Neat resin (9051-89-2)	
Bioaccumulative potential	No data available

### Mobility in soil

Luminy PLA Neat resin (9051-89-2)	
Mobility in soil	No data available

### Hazardous to the ozone layer

Ozone	: Classification not possible
Other adverse effects	: No additional information available

## 13. Disposal considerations

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not re-use empty containers without proper cleaning or reconditioning.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Regional waste regulation	: Dispose in a safe manner in accordance with local/national regulations.

## 14. Transport information

### International Regulations

Overland transport (UN RTDG)	Transport by sea (IMDG)	Air transport (IATA)
<b>UN number</b>		
Not regulated	Not regulated	Not regulated
<b>UN proper shipping name</b>		
Not regulated	Not regulated	Not regulated
<b>Transport hazard class(es)</b>		
Not regulated	Not regulated	Not regulated
<b>Packing group</b>		
Not regulated	Not regulated	Not regulated
<b>Environmental hazards</b>		
Not regulated	Not regulated	Not regulated



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Marine pollutant : Not applicable

### Regulations in Japan

Other information : No supplementary information available

## 15. Regulatory information

### National law

Chemical Substances Control Law : Not applicable  
Industrial Safety and Health Law : Not applicable  
Japanese Poisonous and Deleterious Substances Control Law : Not applicable  
Fire Service Law : Not applicable  
Japanese Pollutant Release and Transfer Register Law (PRTR Law) : Not applicable

### Other regulatory Information

Regulatory reference : Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active, Listed on the Canadian DSL (Domestic Substances List), Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory), Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory, Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China), Listed on NZIoC (New Zealand Inventory of Chemicals), Listed on KECL/KECI (Korean Existing Chemicals Inventory), Listed on the TCSI (Taiwan Chemical Substance Inventory), Listed on the NCI (Vietnam - National Chemical Inventory)

## 16. Other information

Training advice : Ensure staff are informed of and trained on the nature of exposure and basic actions to minimise exposure.  
Training staff on good practice.

Other information : This SDS covers Luminy® PLA L-grades with the suffix BMB and RMB. Luminy® PLA BMB products are PLA grades where the principles of mass balance have been applied with respect to Bonsucro chain-of-custody certification.  
Luminy® PLA RMB products are PLA grades where the principles of mass balance have been applied to allocate the recycled PLA content in the products.

### Indication of changes

Trade name.

Physical and chemical properties.

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