

# Safety Data Sheet

## Luminy PLA Neat resin

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/03/2025 Supersedes: 06/26/2024 Version: 5.4

### SECTION 1: Identification

#### 1.1. Identification

Product form	: Substance
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.
CAS-No.	: 9051-89-2

#### 1.2. Recommended use and restrictions on use

Recommended use	: plastics, Food contact materials
Restrictions on use	: Pharmaceuticals, Medical device

#### 1.3. Supplier

##### Manufacturer

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

##### Supplier (stored only)

TotalEnergies Corbion BV c/o Katoen Natie Norfolk  
810 Ford Drive  
Norfolk, VA 23523 - United States of America  
T +1 866 221 3372

#### 1.4. Emergency telephone number

Emergency number	: +1 202 464 2554 (CareChem24) Operating hours 24 hours, 7 days a week
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### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

No labeling applicable

#### 2.3. 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.
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#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

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### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Substance type : Polymer  
Name : Luminy PLA Neat resin  
CAS-No. : 9051-89-2

Name	Product identifier	Conc. (% w/w)	GHS US classification
Poly lactide resin	(CAS-No.) 9051-89-2	99 – 100	Not classified

Full text of hazard classes and H-statements : see section 16

#### 3.2. Mixtures

Not applicable

### SECTION 4: First-aid measures

#### 4.1. Description of 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/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

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

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

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.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.  
Explosion hazard : Dust may form explosive mixture in air.  
Reactivity in case of fire : Under fire conditions, hazardous fumes will be present: Carbon monoxide, Carbon dioxide, Acetaldehyde.

#### 5.3. Special protective equipment and precautions for fire-fighters

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 environment.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. 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.

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### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- For containment : Stop leak, if possible without risk. 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.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container tightly closed in a cool, well-ventilated place. Protect from moisture.
- Incompatible materials : Water, humidity.
- Storage temperature : < 122 °F
- Storage area : Store according to local legislation.
- Packaging materials : Store always product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Luminy PLA Neat resin (9051-89-2)</b>
No additional information available
<b>Poly lactide resin (9051-89-2)</b>
No additional information available

- Additional information : Contains no substances with occupational exposure limits

### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment.
- Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Hand protection:

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### Protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration
Protective gloves	butyl rubber	6 (> 480 minutes)	0.5	

### Eye protection:

Safety glasses with side shields

Type	Field of application	Characteristics
Safety glasses with side shields	Dust	

### Skin and body protection:

Long sleeved protective clothing

Type
Long sleeved protective clothing

### 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
Dust mask	(FFP2)	Dust protection

### Personal protective equipment symbol(s):



### 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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Pellet.
Color	: White Opaque
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Melting point	: 266 – 446 °F
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available

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Density	: 1.2 – 1.3 g/cm <sup>3</sup>
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 446 °F
No data availableViscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## 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. Hazardous polymerization: Will not occur. When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined.

### 10.4. 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.

### 10.5. Incompatible materials

Water, humidity.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable

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

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

#### 12.2. 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.

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Regional waste regulation : Dispose in a safe manner in accordance with local/national regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
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.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not regulated

#### Transportation of Dangerous Goods

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated



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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

Luminy PLA Neat resin (9051-89-2)	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance. XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Poly lactide resin	CAS-No. 9051-89-2	99 – 100%
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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Poly lactide resin (9051-89-2)	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance. XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

#### 15.2. International regulations

Luminy PLA Neat resin (9051-89-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemical Inventory) For more information on food contact, please refer to the latest food contact compliance statement by TotalEnergies Corbion	
Poly lactide resin (9051-89-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemical Inventory)	

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

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Revision date	: 02/03/2025
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.

Abbreviations and acronyms:

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ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstract Service number
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DOT	Department of Transportation (DOT)
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
EPA	EPA (Environmental Protection Agency)
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
N.O.S.	Not Otherwise Specified

Indication of changes:

Trade name. Physical and chemical properties.

TotalEnergies Corbion SDS US (GHS HazCom 2012)

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