

Safety Data Sheet

Luminy PLA Neat resin

according to the Hazardous Products Regulation (February 11, 2015)

Issue date: 22-02-2019

Revision date: 10-02-2025

Supersedes: 04-11-2022

Version: 3.2

SECTION 1: Identification

1.1. Product identifier

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.
Substance type : Polymer
CAS-No. : 9051-89-2

1.2. Recommended use and restrictions on use

Recommended use : Plastics
Restrictions on use : Pharmaceuticals, Medical device

1.3. Supplier

Manufacturer

TotalEnergies Corbion BV
70 Stadhuisplein
4203 NS Gorinchem - The Netherlands
T +31 183 695 695
pla@totalenergies-corbion.com

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Not classified

2.2. GHS Label elements, including precautionary statements

GHS CA labelling

No labelling applicable

2.3. Other hazards

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

2.4. Unknown acute toxicity (GHS CA)

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Polymer
Name : Luminy PLA Neat resin

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EN (English)

Reference number: TC00003

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CAS-No. : 9051-89-2

EC-No. : 618-575-7

Name	Chemical name/Synonyms	Product identifier	Conc. (% w/w)	Classification (GHS CA)
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 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.
First-aid measures general : If you feel unwell, seek medical advice.

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

Symptoms/effects : None known. Non-hazardous substance.
Symptoms/effects after eye contact : None under normal conditions. Dust from this product may cause eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.3. Specific hazards arising from the hazardous product

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.

5.4. 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 the 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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
Prevention Measures for Secondary Accidents : No flames, no sparks. Eliminate all sources of ignition.

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

6.3. Reference to other sections

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

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SECTION 7: Handling and storage

7.1. Precautions for safe 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.

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	: < 50 °C
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

Additional information	: Contains no substances with occupational exposure limits
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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:

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):

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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.
Colour	: White Opaque
Odour	: Odourless
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: 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
Vapour pressure at 50°C	: No data available
Relative density	: No data available
Density	: 1.2 – 1.3 g/cm³
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Explosive limits	: Not applicable

9.2. Other information

SECTION 10: Stability and reactivity

10.1. 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.

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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

: Not classified

STOT-repeated exposure

Aspiration hazard : Not classified

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Viscosity, kinematic	Not applicable
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Symptoms/effects : None known. Non-hazardous substance.

Symptoms/effects after eye contact : None under normal conditions. Dust from this product may cause eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

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) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

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.
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12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

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.

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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

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

Not regulated for transport

14.2. Transport information/DOT

Department of Transport

Not regulated for transport

14.3. Air and sea transport

IMDG

Not regulated for transport

IATA

Not regulated for transport

SECTION 15: Regulatory information

15.1. National regulations

Luminy PLA Neat resin (9051-89-2)	
Listed on the Canadian DSL (Domestic Substances List)	
Canada DSL NDSL Flags	Substance was manufactured or imported after July 1, 1994
Poly lactide resin (9051-89-2)	
Listed on the Canadian DSL (Domestic Substances List)	
Canada DSL NDSL Flags	Substance was manufactured or imported after July 1, 1994

SECTION 16: Other information

Issue date : 22-02-2019

Revision date : 10-02-2025

Supersedes : 04-11-2022

Indication of changes:

Trade name. Physical and chemical properties.

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:

CAS-No.	Chemical Abstract Service number
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
N.O.S.	Not Otherwise Specified
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
SDS	Safety Data Sheet

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TotalEnergies Corbion SDS Canada (GHS)

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