SECTION 1: Identification of Product and Company

1.1. Product identifier

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.

Recommended use : Plastics

Restrictions on use : Pharmaceuticals,Medical device

1.2. Company identification

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

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

SECTION 2: Hazards identification

2.1. Classification according to GHS BR (ABNT NBR 14725: 2023)

Classification according to GHS BR (ABNT NBR 14725: 2023)

Chemical product not classified as hazardous according to ABNT NBR 14725

2.2. Label elements

GHS BR labelling

No labelling applicable

2.3. Other hazards not contributing to the classification

Warning,Potential dust explosion hazard,Dust may form explosive mixture in air

SECTION 3: Composition/information on ingredients

3.1. Substances

CAS-No. : 9051-89-2

Substance type : Polymer

Name : Luminy PLA Neat resin

CAS-No. : 9051-89-2

EC-No. : 618-575-7

Name	Product identifier	Conc. (% w/w)
Polylactide resin	(CAS-No.) 9051-89-2	99 – 100

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 or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

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

4.3. Indication of any immediate medical attention and special treatment needed

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. 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. Special hazards arising from the substance or mixture

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. Advice for firefighters

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.

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.

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 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.

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.
Handling temperature	:	< 50 °C
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	:	< 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

8.2. Exposure 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. Personal protective equipment

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

Personal protective equipment:

Wear recommended personal protective equipment.

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	

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

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.

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	:	Not available
pH	:	Not available
Melting point	:	130 – 230 °C
Freezing point	:	Not available
Boiling point	:	Not available
Flash point	:	Not available
Relative evaporation rate (butylacetate=1)	:	Not available
Flammability	:	Not available
Explosive limits	:	Not available
Vapour pressure	:	Not available
Relative vapour density at 20°C	:	Not available
Relative density	:	Not available
Density	:	1,2 – 1,3 g/cm³
Solubility	:	insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	> 230 °C
Viscosity, kinematic	:	Not available
Viscosity, dynamic	:	Not available

9.2. Other information

SECTION 10: Stability and reactivity

Chemical stability	:	Stable under normal conditions
Conditions to avoid	:	Above a temperature of: 230ºC / 446 °F. Protect from moisture. Avoid raising powdered materials into airborne dust, creating an explosion hazard
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced
Incompatible materials	:	Water, humidity
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
Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport
Handling temperature	:	< 50 °C

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not available
Acute toxicity (dermal)	:	Not available
Acute toxicity (inhalation)	:	Not available
Skin corrosion/irritation	:	Not available
Serious eye damage/irritation	:	Not available
Respiratory or skin sensitisation	:	Not available
Germ cell mutagenicity	:	Not available
Carcinogenicity	:	Not available
Reproductive toxicity	:	Not available
STOT-single exposure	:	Not available
STOT-repeated exposure	:	Not available
Aspiration hazard	:	Not available

11.2. Most important symptoms and effects, both acute and delayed

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 nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short–term (acute)	:	Not available
Hazardous to the aquatic environment, long–term (chronic)	:	Not available

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

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

14.1 National and international Regulations

Not regulated for transport

14.2 Other information

No additional information available

SECTION 15: Regulatory information

Brazil Local Regulations : Standard ABNT NBR 14725.
Federal Decree no. 10.088, of 5 November 2019 – Promulgates Convention no. 170 of the WLO, relating to Safety in the Use of Chemicals in the Workplace, ratified by the Federative Republic of Brazil.
Ministerial Order no. 2.770, of 5 September 2022 – Approves the new wording of Regulatory Standard No. 26
Resolution no. 5998, of November 3, 2022, updates the regulation for road transport of dangerous goods, approves its Complementary Instructions, and other measures.

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)

SECTION 16: Other information

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

Indication of changes:
Trade name. Physical and chemical properties.

TotalEnergies Corbion SDS Brazil