

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

Luminy PLA Neat resin

Compiled according to GB/T 16483, GB/T 17519

Version: 3.2

Revision date: 1/21/2025

Initial preparation date: 6/17/2020

SECTION 1 Chemical product and company identification

Chemical name (Chinese Name)	: Luminy PLA 纯树脂
Chemical name (English name)	: Luminy PLA Neat resin
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® LX177 CS1 Luminy® L040 This SDS covers Luminy® PLA L-grades with the suffix BMB and RMB.
Name of company	: TotalEnergies Corbion BV
Title	: Manufacturer
Address	: The Netherlands Gorinchem Stadhuisplein 70
Zip code	: 4203 NS
Tel.	: +31 183 695 695
E-mail	: pla@totalenergies-corbion.com
Emergency number	: +44 1865 407333 (CareChem24) Operating hours 24 hours, 7 days a week
Recommended use	: Plastics
Restrictions on use	: Pharmaceuticals Medical device

SECTION 2 Hazards identification

Emergency overview

Pellet. White. Opaque. Odourless. Avoid dust formation. Avoid raising powdered materials into airborne dust, creating an explosion hazard. The product is non-reactive under normal conditions of use, storage and transport. For further information refer to section 8: "Exposure controls/personal protection"

GHS classification

Other hazards not mentioned above are Not applicable or No data is available.

Label elements

No data available

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Physical and chemical hazards

No additional information available

Health hazards

Symptoms/effects : None known, Non-hazardous substance

Environmental hazards

No additional information available

Other hazards

Warning

Potential dust explosion hazard

Dust may form explosive mixture in air

SECTION 3 Composition/information on ingredients

Product form : Substance.

Name	CAS-No.	Concentration (Conc. (% w/w))
Poly lactide resin	9051-89-2	99 – 100

SECTION 4 First aid measures

Emergency

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

Most Important Symptoms/Effects

None known

Non-hazardous substance

Personal Protection in First Aid and Measures

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

Notes for the doctor

Other medical advice or treatment : Treat symptomatically

SECTION 5 Fire fighting measures

Extinguishing media

Suitable extinguishing media : Water spray
Dry powder
Foam

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

Special hazard

Fire hazard : No fire hazard

Hazardous decomposition products in case of fire : Under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon monoxide, Acetaldehyde

Explosion hazard : Dust may form explosive mixture in air

Advice for firefighters and protective measures

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

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

Personal Precautions, Protective Equipment and Emergency Procedures : No additional information available

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

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.

Environmental precautions : Avoid release to the environment

Methods and Equipment for Containment and Cleaning up

Methods for cleaning : 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

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

Prevention Measures for Secondary Accidents

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

SECTION 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

Local and general ventilation : No additional information available

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.

Material used in packaging/containers : No additional information available

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 equipment

Occupational Exposure Limits

No additional information available

Biological limit values

No additional information available

Monitoring methods

No additional information available

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

Personal protective equipment

Personal protective equipment : Wear recommended personal protective equipment

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.

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)



SECTION 9 Physical and chemical properties

Physical state : Solid

Appearance : Pellet

Colour : White, Opaque

Odour : Odourless

pH : No data available

Melting point : 150 – 230 °C

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Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 230 °C.
Flammability	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Density	: 1.2 – 1.3 g/cm ³
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Explosive limits (vol %)	: Not applicable
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Radioactive	: No

SECTION 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
Other properties	: No additional information available

SECTION 11 Toxicological information

Acute toxicity

Acute toxicity (oral)	: No data available
Acute toxicity (dermal)	: No data available
Acute toxicity (inhalation)	: No data available

Skin corrosion/irritation

Skin corrosion/irritation	: No data available
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Serious eye damage/irritation

Serious eye damage/irritation	: No data available
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Respiratory or skin sensitisation

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity

Germ cell mutagenicity : No data available

Carcinogenicity

Carcinogenicity : No data available

Reproductive toxicity

Reproductive toxicity : No data available

STOT-single exposure

STOT - single exposure : No data available

STOT-repeated exposure

STOT - repeated exposure : No data available

Aspiration hazard

Aspiration hazard : No data available

Luminy PLA Neat resin	
Viscosity, kinematic	Not applicable
Density	1.2 – 1.3 g/cm ³

SECTION 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) : No data available

Hazardous to the aquatic environment, long-term (chronic) : No data available

No additional information available

Persistence and degradability

Luminy PLA Neat resin	
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.
Polylactide resin	
Persistence and degradability	Hydrolyses in hot water Compostable and biodegradable according to EN 13432, ASTM

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D6400 and ISO 17088. Decomposes in contact with (hot) water. The hydrolysis product is S-lactic acid which is readily biodegradable.

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

Other adverse effects

Classification procedure (Ozone) : No data available

Results of PBT and vPvB assessment

PBT : This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

vPvB : This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 13 Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Contaminated container and packaging : No additional information available

Additional information : No additional information available

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

Regional waste regulation : Dispose in a safe manner in accordance with local/national regulations

SECTION 14 Transport information

Overland transport (JT/T 617)	Transport by sea	Air transport
UN number		
Not regulated	Not regulated	Not regulated
Proper shipping name		
Not regulated	Not regulated	Not regulated
Transport document description		
Not regulated	Not regulated	Not regulated
Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
Not regulated	Not regulated	Not regulated

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Overland transport (JT/T 617)	Transport by sea	Air transport
Packing group		
Not regulated	Not regulated	Not regulated
Environmental hazards		
Not regulated	Not regulated	Not regulated

Special transport precautions

Overland transport (JT/T 617)

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15 Regulatory information

New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020)

Inventory of Existing Chemical Substances in China (IECSC)

: Contains listed substance(s)
1,4-Dioxane-2,5-dione, 3,6-dimethyl-, (3R,6R)-, polymer with rel-(3R,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione and (3S,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione (9CI) (CAS-No. 9051-89-2)

SECTION 16 Other information

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
PBT	Persistent Bioaccumulative Toxic
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

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

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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

TotalEnergies Corbion SDS CN (GB/T 17519-2013)

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