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#### SECTION 1 Chemical product and company identification

Chemical name (Chinese Luminy PLA 纯树脂

Name)

Chemical name (English Luminy PLA Neat resin

name)

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

Luminv® TGR1 Luminv® 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

4203 NS Zip code

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

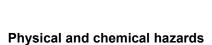
No data available



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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))
Polylactide 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

Special hazard

Fire hazard No fire hazard

Hazardous decomposition products in case of fire

Explosion hazard

Under fire conditions, hazardous fumes will be present: Carbon

dioxide, Carbon monoxide, Acetaldehyde 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 Do not attempt to take action without suitable protective

Protection during firefighting equipment

Self-contained breathing apparatus Complete protective clothing

No additional information available

**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** 

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 Shovel or sweep up and put in a closed container for disposal

Flush contaminated areas with plenty of water

Use non-sparking tools

Avoid dust formation

Never return spills in original containers for possible later re-

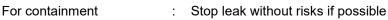
use



### SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

Luminy PLA Neat resin
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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

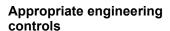
#### Monitoring methods

No additional information available



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: 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

Other information

Avoid release to the environment.

controls

: 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

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

Eye protection : Safety glasses with side shields

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

Skin and body protection : Long sleeved protective clothing

Туре	Standard
Long slooved protective clathing	

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,OpaqueOdour: Odourless

pH : No data available Melting point : 150 – 230 °C





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Flammability : Non flammable.

Vapour pressure : No data available

Relative vapour density at : No data available

Density : 1.2 – 1.3 g/cm³

Solubility : insoluble in water.

Partition coefficient n- : No data available

octanol/water (Log Pow)

20°C

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

Chemical Stability . Stable under normal conditions

Possibility of hazardous : No dangerous reactions known under normal conditions of use

reactions 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

Water, humidity

Incompatible materials

**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

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 <sup>3</sup>

#### **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)

Hazardous to the aquatic environment, long-term

(chronic)

No data available

No data available

No additional information available

#### Persistence and degradability

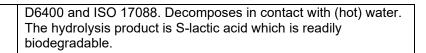
Luminy PLA Neat resin	
Persistence and degradability	Hydrolyses in hot water
	The hydrolysis product is readily biologically degradable
	Compostable and biodegradable according to EN 13432, ASTM D6400 and ISO 17088. Decomposes in contact with (hot) water. The hydrolysis product is S-lactic acid which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

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



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#### **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

Product/Packaging disposal

recommendations

No additional information available

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 chainof-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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