according to JIS Z 7253 : 2019 Product Reference code:TC00003 Issue date: 2022/10/31 Revision date: 2025/02/03

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1. Chemical product and company identification

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

Recommended use of the chemical and restrictions on use

Recommended use : Plastics

Restrictions on use : Pharmaceuticals, Medical device

Company information

Manufacturer

TotalEnergies Corbion BV 4203 NS The Netherlands Gorinchem Stadhuisplein 70

T +31 183 695 695

pla@totalenergies-corbion.com

Emergency telephone number

Emergency number : +44 1865 407333 (CareChem24)

Operating hours 24 hours, 7 days a week

2. Hazards identification

GHS classification

Physical hazards Pyrophoric solids No classification
Oxidizing solids No classification

Other hazards which do not result in classification

Other hazards which do not result in : Warning.

classification Potential dust explosion hazard.

Dust may form explosive mixture in air.

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

3. Composition/information on ingredients

Distinction of substance or mixture : Substance

Name	Conc.	Formula	Reference number in the gazette list	CAS-No.
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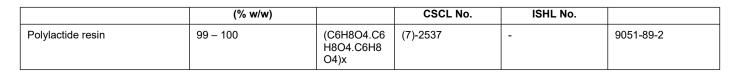


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4. First aid measures

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.

Personal Protection in First Aid and : For further information refer to section 8: "Exposure controls/personal protection". Measures

Most Important Symptoms/Effects

Symptoms/effects : None known.

Non-hazardous substance.

Treatment

Other medical advice or treatment : Treat symptomatically.

5. Fire fighting measures

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

Fire hazard : No fire hazard.

Explosion hazard : Dust may form explosive mixture in air.

Hazardous decomposition products in ... Under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon

case of fire monoxide, Acetaldehyde
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.

6. Accidental release measures

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.

Measures in case of dust release : No flames, no sparks. Eliminate all sources of ignition.

For emergency responders



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

Environmental precautions

Environmental precautions : Avoid release to the environment.

Methods and Equipment 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.

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.

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.

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.

Incompatible materials : Water, humidity.

Storage area : Store according to local legislation.

Packaging materials : Store always product in container of same material as original container.

Storage temperature : < 50 °C

8. Exposure controls / Personal protection equipment

Appropriate engineering controls

Ensure good ventilation of the work station, Assess the risk of potentially explosive

atmospheres and the need for explosion-proof equipment.

Protective equipment

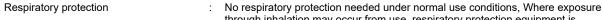


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through inhalation may occur from use, respiratory protection equipment is

recommended

Device	Filter type	Condition	Standard
Dust mask	(FFP2)	Dust protection	EN 149

Hand protection Protective gloves

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Protective gloves	Butvl 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

: Long sleeved protective clothing Skin and body protection

Туре	Standard
Long sleeved protective clothing	

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.

9. Physical and chemical properties

Physical state Solid Appearance Pellet

Colour White, Opaque Odour Odourless No data available 130 - 230 °C Melting point Freezing point Not applicable Boiling point No data available Flash point Not applicable Not applicable Auto-ignition temperature Decomposition temperature > 230 °C Non flammable. Flammability No data available Vapour pressure Relative density No data available Density 1.2 - 1.3 g/cm³ Relative gas density No data available

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Solubility : insoluble in water
Partition coefficient n-octanol/water : No data available

(Log Pow)

Explosive limits (vol %) : Not applicable
Viscosity, kinematic: : Not applicable
Particle size : No data available
Particle size distribution : No data available
Particle shape : No data available
Particle aspect ratio : No data available
Particle specific surface area : No data available

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.

11. Toxicological information

Acute toxicity (oral) : Classification not possible
Acute toxicity (dermal) : Classification not possible
Acute toxicity (inhalation) : Classification not possible (gas)

Not applicable (Vapour)

Classification not possible (dust, mist)

Skin corrosion/irritation : Classification not possible

Serious eye damage/irritation : Classification not possible

Respiratory sensitization : Classification not possible Skin sensitization : Classification not possible Germ cell mutagenicity : Classification not possible Carcinogenicity : Classification not possible

Reproductive toxicity : Classification not possible STOT-single exposure : Classification not possible

STOT-repeated exposure : Classification not possible

Aspiration hazard : Classification not possible

Luminy PLA Neat resin (9051-89-2)	
Viscosity, kinematic	Not applicable



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12. Ecological information

Ecotoxicity

The product is not considered harmful to aquatic organisms nor to cause long-Ecology - general

term adverse effects in the environment. Classification not possible

Hazardous to the aquatic environment,

short-term (acute)

Hazardous to the aquatic environment,

long-term (chronic)

Classification not possible

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.	

Bioaccumulative potential

Luminy PLA Neat resin (9051-89-2)		
Bioaccumulative potential	No data available	

Mobility in soil

Luminy PLA Neat resin (9051-89-2)		
Mobility in soil	No data available	

Hazardous to the ozone layer

Classification not possible No additional information available Other adverse effects

13. Disposal considerations

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.

Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting

instructions.

Regional waste regulation

Dispose in a safe manner in accordance with local/national regulations.

14. Transport information

International Regulations

Overland transport (UN RTDG)	Transport by sea (IMDG)	Air transport (IATA)		
UN number	1			
Not regulated	Not regulated	Not regulated		
UN proper shipping name				
Not regulated	Not regulated	Not regulated		
Transport hazard class(es	Transport hazard class(es)			
Not regulated	Not regulated	Not regulated		
Packing group				
Not regulated	Not regulated	Not regulated		
Environmental hazards	Environmental hazards			
Not regulated	Not regulated	Not regulated		



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Marine pollutant : Not applicable

Regulations in Japan

Other information : No supplementary information available

15. Regulatory information

National law

Chemical Substances Control Law : Not applicable Industrial Safety and Health Law : Not applicable Japanese Poisonous and Deleterious : Not applicable

Substances Control Law

Fire Service Law

Japanese Pollutant Release and Transfer
Register Law (PRTR Law)

Not applicable

Other regulatory Information

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)

16. Other information

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.

Indication of changes

Trade name.

Physical and chemical properties.

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