

Safety Data Sheet

Luminy PDLA Neat resin

according to JIS Z 7253 : 2019

Product Reference code: TC00004

Issue date: 11/23/2017 Revision date: 10/21/2022

Version: 4.1

1. Chemical product and company identification

Substance name : Luminy PDLA Neat resin
Trade name : Luminy® D070
Luminy® D105
Luminy® D120
Luminy® D130
Type of product : Polymers
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

TotalEnergies Corbion BV
4203 NS The Netherlands Gorinchem
Stadhuisplein 70
T +31 183 695 695 - F +31 183 695 600
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 classification : Warning.
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. (% w/w)	Formula	Reference number in the gazette list		CAS-No.
			CSCL No.	ISHL No.	
Poly lactide resin	> 99	(C ₆ H ₈ O ₄ .C ₆ H ₈ O ₄ .C ₆ H ₈ O ₄) _x	(7)-2537	-	9051-89-2

4. First aid measures

First aid measures

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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

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

Other medical advice or treatment	: Treat symptomatically.
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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
Explosion hazard	: Dust may form explosive mixture in air.
Hazardous decomposition products in case of fire	: Under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon 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.
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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".
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Environmental precautions

Environmental precautions	: Avoid release to the environment.
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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.

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- Prevention Measures for Secondary Accidents : Use non-sparking tools.
Never return spills in original containers for possible later re-use.
- Other information : No flames, no sparks. Eliminate all sources of ignition.
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.
- 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.
- 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.
- 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

- 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

- 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

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Type	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, Do not breathe dust.

9. Physical and chemical properties

Physical state	: Solid
Appearance	: Pellet
Colour	: White, Opaque
Odour	: Odourless
pH	: No data available
Melting point	: 150 – 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
Relative density	: No data available
Density	: 1.2 – 1.3 g/cm ³
Relative gas density	: No data available
Solubility	: insoluble in water
Partition coefficient n-octanol/water (Log Pow)	: No data available
Explosive properties	: Not explosive
Explosive limits (vol %)	: Not applicable
Viscosity, kinematic:	: Not applicable
Dust deflagration index	: 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.

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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

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Viscosity, kinematic	Not applicable
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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) : Classification not possible
- Hazardous to the aquatic environment, long-term (chronic) : Classification not possible

Persistence and degradability

Luminy PDLA 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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Bioaccumulative potential

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Bioaccumulative potential	No data available

Mobility in soil

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Mobility in soil	No data available

Hazardous to the ozone layer

Ozone	: Classification not possible
Other adverse effects	: No additional information available

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 legislation (waste)	: 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		
Not regulated	Not regulated	Not regulated
UN proper shipping name		
Not regulated	Not regulated	Not regulated
Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
Packing group		
Not regulated	Not regulated	Not regulated
Environmental hazards		
Not regulated	Not regulated	Not regulated

Marine pollutant	: Not applicable
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Regulations in Japan

Other information	: No supplementary information available
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15. Regulatory information

National law

Chemical Substances Control Law	: Not applicable
Industrial Safety and Health Law	: Not applicable
Japanese Poisonous and Deleterious Substances Control Law	: Not applicable
Fire Service Law	: Not applicable
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	: Not applicable

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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.

Indication of changes

Address.

Logo.

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