

Safety Data Sheet

Luminy PDLA Neat resin

According to the MOI Notification B.E. 2555 (2012)
Revision date: 2/3/2026 Supersedes: 1/20/2023 Version: 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Name : Luminy PDLA Neat resin
Trade name : Luminy® D070
Luminy® D120
Substance type : Polymer
CAS-No. : 9051-89-2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Restrictions on use : Pharmaceuticals
Medical device

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to MOI notification B.E. 2555 (2012)

Not classified as a hazardous chemical

2.2. Label elements

Labelling according to MOI notification B.E. 2555 (2012)

No labelling applicable

2.3. Other hazards

Other hazards which do not result in classification : Warning,Potential dust explosion hazard,Dust may form explosive mixture in air

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Polymer
Name : Luminy PDLA Neat resin
CAS-No. : 9051-89-2
EC-No. : 618-575-7

Name	Product identifier	Conc. (% w/w)	Classification according to MOI notification B.E. 2555 (2012)
Poly lactide resin	CAS-No.: 9051-89-2	> 99	Not classified

Full text of H-statements: see section 16

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3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

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

Explosion hazard : Dust may form explosive mixture in air.
General measures : Notify authorities if product enters sewers or public waters. No flames, no sparks. Eliminate all sources of ignition.
Hazardous decomposition products in case of fire : Under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon monoxide, 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 : Notify authorities if product enters sewers or public waters. No flames, no sparks. Eliminate all sources of ignition.

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.

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".

6.2. Environmental precautions

Discharge into the environment must be avoided. Notify authorities if product enters sewers or public waters.

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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 : Minimise generation of dust. Use non-sparking tools. Use wet cleaning techniques or vacuum cleaners with HEPA H13 filters (or better) for removal of dust. Do not allow product to reach the sewage system. Never return spills in original containers for possible later re-use. Train personnel on the risks of leakage and proper cleanup procedures.

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. Clean up thoroughly after use. Ensure good ventilation of the work station. Keep only in original container.
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a cool, well-ventilated place. Protect from moisture.
Storage area : Store according to local legislation.
Incompatible materials : Water, humidity.
Heat and ignition sources : No flames, no sparks. Eliminate all sources of ignition.
Storage temperature : < 50 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

Exposure limit values for the other components

No additional information available

8.2. Exposure controls

No additional information available

8.3. Appropriate engineering 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.

8.4. 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

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Type	Field of application	Characteristics	Standard
Safety glasses with side shields	Dust		EN ISO 16321-1

Skin and body protection : Long sleeved protective clothing

Type	Standard
Long sleeved protective clothing	EN ISO 13982

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



Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state	: Solid
Appearance	: Pellet.
Colour	: White, Opaque
Odour	: Odourless
Odour threshold	: Not available
pH	: No additional information available
Melting point, Freezing point	: Melting point: 150 – 230 °C Freezing point: Not applicable
Boiling point	: Not available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 230 °C
Flammability	: Non flammable
Vapour pressure	: No additional information available
Evaporation rate	: No additional information available
Explosive limits	: Not applicable
Explosive properties	: Not explosive.
Minimum ignition energy	: No data available
Solubility	: insoluble in water.
Density	: Density: 1.2 – 1.3 g/cm ³
Relative density	: No additional information available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Dust deflagration index	: Not applicable

SECTION 10: Stability and reactivity

Chemical stability	: Stable under normal conditions.
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.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials	: Water, humidity.

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- 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.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

Luminy PDLA Neat resin (9051-89-2)	
Viscosity, kinematic	Not applicable
Density	1.2 – 1.3 g/cm ³
Polylactide resin (9051-89-2)	
Animal studies and expert judgment for classification	False

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 classified
- Hazardous to the aquatic environment, long-term (chronic) : Not classified

12.2. 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.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

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Mobility in soil	No additional information available

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12.5. Results of PBT and vPvB assessment

Ozone : Not classified
Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

IMDG	IATA	UNRTDG
14.1. UN number		
Not regulated for transport		
Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available		

14.6. Special precautions for user

UN RTDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Hazardous Substance Act		
List of Hazardous Substances	Not applicable	
Other relevant regulations		
Ambient Air Quality Standards	Not applicable	
Food Containing Pesticide Residues	Not applicable	
Groundwater Quality Standards	Not applicable	
Industrial Effluent Standards	Not applicable	
Industrial Waste Disposal	Not applicable	
Prohibited Substances Used in Food	Not applicable	
Schedule of Quantity of Air Contaminants Emitted from Factory	Not applicable	
Volatile Organic Compounds in Ambient Air Standards	Not applicable	
Thailand Existing Chemicals Inventory (DIW)	Applicable	9051-89-2: 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
Thailand Existing Chemicals Inventory (FDA)	Not applicable	

15.2. International agreements

Regional legislation

Australia AICS	: Yes
Canada DSL	: Yes
Canada NDSL	: No
China IECSC	: Yes
EU EINECS	: No
EU NLP	: No
Korea ECL	: Yes
US TSCA Active	: Yes
US TSCA Inactive	: No

SECTION 16: Other information

Version	: 1.1
Revision date	: 03/02/2026
Supersedes	: 20/01/2023

Indication of changes:

Trade name.

Data sources	: Loli.
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

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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

Training advice

: Ensure staff are informed of and trained on the nature of exposure and basic actions to minimise exposure.

TotalEnergies Corbion Thailand (MOI Notification B.E. 2555 (Ministry of Interior))

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