according to MOEL Public notice 2020-130 Issue date: Revision date:21/10/2022

Supersedes: 17/06/2020





#### 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® D105

Luminy® D120 Luminy® D130

EC-No. : 618-575-7
CAS-No. : 9051-89-2
Type of product : Polymers
KECI-No. : 2003-3-2341

#### 1.2. Recommended uses and restrictions

1.2.2. Restrictions on use : Pharmaceuticals, Medical device

#### 1.3. Supplier information

- Supplier

Company : TotalEnergies Corbion BV

Address : (4203 NS) The Netherlands Gorinchem Stadhuisplein 70

Tel. : +31 183 695 695

Emergency telephone number : +44 1865 407333 (CareChem24)

Emergency information : Operating hours 24 hours, 7 days a week

Fax : +31 183 695 600

E-mail : pla@totalenergies-corbion.com

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

No data available

#### 2.2. Label elements

#### 2.2.1. Hazard pictograms (GHS KR)

Not applicable

#### 2.2.2. Signal word (GHS KR)

Not applicable

#### 2.2.3. Hazard statements (GHS KR)

Not applicable

#### 2.2.4. Precautionary statements (GHS KR)

Not applicable

#### 2.3. Hazards - Other hazards which do not result in classification - Hazard Risk

Warning.

Potential dust explosion hazard.

Dust may form explosive mixture in air

#### SECTION 3: Composition/information on ingredients

Product form : Substance





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Substance name	Other Names	Product identifier number	Concentration (%)
Polylactide resin	-	CAS-No.: 9051-89-2 KECI-No.: 2003-3-2341	> 99

No data available

#### **SECTION 4: First aid measures**

#### 4.1. First-aid measures after eye contact

- Rinse eyes with water as a precaution.

#### 4.2. First-aid measures after skin contact

- Wash skin with plenty of water.

#### 4.3. First-aid measures after inhalation

- Remove person to fresh air and keep comfortable for breathing.

#### 4.4. First-aid measures after ingestion

- Call a poison center or a doctor if you feel unwell.

#### 4.5. Other medical advice or treatment

- Treat symptomatically.

#### SECTION 5 : Firefighting measures

#### 5.1. Suitable (and unsuitable) 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

#### 5.2. Special hazards arising from the substance or mixture

- Explosion hazard

Dust may form explosive mixture in air.

- Reactivity in case of fire

Under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon monoxide, Acetaldehyde.

#### 5.3. Special protective equipment and precautions for fire-fighters

- 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

- Wear recommended personal protective equipment.

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- 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.
- Do not attempt to take action without suitable protective equipment.
- For further information refer to section 8: "Exposure controls/personal protection".
- Dispose of materials or solid residues at an authorized site.

#### 6.2. Environmental precautions and protective procedures

- Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- Stop leak without risks if possible.
- Avoid creating or spreading dust.
- 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.

#### **SECTION 7: Handling and storage**

#### 7.1. 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 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.
- Dust may form flammable and explosive mixture with air.

#### 7.2. Conditions for safe storage

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

#### SECTION 8 : Exposure controls/personal protection

#### 8.1. Occupational Exposure Limits

Luminy PDLA Neat resin (9051-89-2)

Polylactide resin (9051-89-2)

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station, Assess the risk of potentially explosive atmospheres and the need for

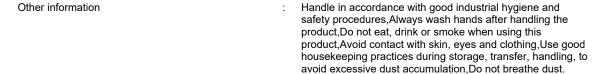
explosion-proof equipment. Avoid release to the environment.

Environmental exposure controls



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#### 8.3. Personal protection

Hand protection:							
Protective gloves							
Туре	Material		Permeation	Thickness (mm)	Penetration	on	Standard
Protective gloves	Butyl rubbe	er	6 (> 480 minutes)	0.5			EN 374
Eye protection:							
Safety glasses with side shields							
Туре		Field of app	plication	Characteristics		Standard	
Safety glasses with side	e shields	Dust				EN 166	
Skin and body protection:							
Long sleeved protective	clothing						
Туре			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 protection** 

#### Personal protective equipment symbol(s):



Dust mask





(FFP2)

#### **SECTION 9: Physical and chemical properties**

Pellet. a. Appearance Physical state Solid.

Colour White, Opaque.

b. Odour Odourless.

c. Odour threshold No data available

d. pH No data available

e. Melting / freezing point 150 - 230 °C

f. Boiling point No data available

Not applicable g. Flash point

h. Evaporation rate No data available

i. Flammability (solid, gas) Non flammable.

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EN 149

j. Upper / lower flammability or explosive limits Not applicable

k. Vapour pressure No data available

I. Solubility No data available

m. Vapour density No data available

n. Specific gravity density No data available

o. Log Pow No data available

p. Auto-ignition temperature Not applicable

q. Decomposition temperature > 230 °C

r. Viscosity, kinematic Not applicable r. Viscosity, dynamic No data available s. Molecular mass No data available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Chemical stability and Possibility of hazardous reactions

- The product is non-reactive under normal conditions of use, storage and transport.
- Stable under normal conditions.
- 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.

#### 10.2. 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.

#### 10.3. Incompatible materials

- Water, humidity.

#### 10.4. Hazardous decomposition products

- Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### SECTION 11 : Toxicological information

#### 11.1. Information on exposure routes

Not classified Oral Skin and eyes contact Not classified Inhalation : Not classified

#### 11.2. Health hazards

#### Acute toxicity (oral):

Not classified



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Not classified

Acute toxicity (inhalation):

Not classified

Skin corrosion/irritation:

Not classified

Serious eye damage/irritation:

Not classified

Respiratory sensitization:

Not classified

Skin sensitization:

Not classified

Carcinogenicity:

Not classified

**Mutagenicity:** 

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

Polylactide resin (9051-89-2)	
Animal studies and expert judgment for classification	False

#### **SECTION 12 : Ecological information**

#### 12.1. 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

: Not classified

Hazardous to the aquatic environment, long-term

: Not classified

KR - en

(chronic)

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Luminy PDLA Neat resin (9051-89-2)		
g ,	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 data available

#### 12.4. Mobility in soil

No data available

#### 12.5. Other adverse effects

Ozone : Not classified

Other adverse effects No additional information available

#### **SECTION 13: Disposal considerations**

#### 13.1. Disposal method

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

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

#### 13.2. Disposal precaution

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

Do not re-use empty containers without proper cleaning or reconditioning.

No data available

#### **SECTION 14: Transport information**

UN RTDG	ADR	IMDG	IATA	
14.1. UN number				
Not regulated for transport				
14.2. Proper Shipping Name				
Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards				
Dangerous for the environment :	Dangerous for the environment :	Dangerous for the environment :	Dangerous for the environment :	
No	No	No	No	
		Marine pollutant : No		
No supplementary information available				

#### 14.6. Special transport precautions

No data available

#### SECTION 15: Regulatory information

#### 15.1. Occupational Safety and Health Act

- Hazardous Substances Prohibited for

Manufacturing

- Hazardous Substances Requiring

Permission

Not applicable Not applicable

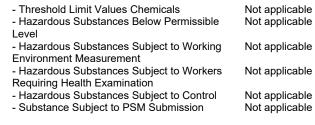
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#### 15.2. Chemicals Control Act (CCA) / K-REACH

- Toxic Chemicals	Not applicable
- Prohibited Chemicals	Not applicable
- Restricted Chemicals	Not applicable
- Substance requiring preparation for	Not applicable
accidents	
<ul> <li>Priority Existing Chemical ('PEC') – subject</li> </ul>	Not applicable
to registration	
- Substance subject to authorisation	Not applicable

#### K-REACH inventories

No data available

#### 15.3. Safety Control of Dangerous Substances Act

- Not applicable

#### 15.4. Wastes Control Act

- Not applicable

#### 15.5. Other Domestic and International Regulatory Information

### Domestic - Persistent Organic Pollutants(POPs) Control

Act - Ozone Depleting Substances(ODS)	Not applicable
International EU Regulatory Information - EU restriction list (REACH Annex XVII)	Not applicable

Not applicable

#### US Regulatory Information

- CERCLA Section 103 (40CFR302.4)	) Not applicable
- EPCRA Section 302 (40CFR355.30)	Not applicable
- EPCRA Section 304 (40CFR355.40)	Not applicable
- EPCRA Section 313 (40CFR372.65)	Not applicable

International agreements No data available

#### **SECTION 16: Other information**

16.1. Data sources : No data available

**16.2. Issue date**16.3. Revision number and date
16.3. Revision number and date
16. Revi

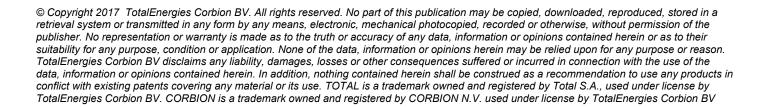
16.4. Other information : No data available

#### 16.5. Indication of changes:

Address. Logo.

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