

# SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

## Luminy PDLA Neat resin

Compiled according to GB/T 16483, GB/T 17519

Version: 4.1

Revision date: 2022/10/30

Initial preparation date: 2017/11/23

### SECTION 1 Chemical product and company identification

<b>Chemical name (Chinese Name)</b>	: Luminy PDLA 纯树脂
<b>Chemical name (English name)</b>	: Luminy PDLA Neat resin
<b>Name</b>	: Luminy PDLA Neat resin
<b>Trade name</b>	: Luminy® D070 Luminy® D105 Luminy® D120 Luminy® D130
<b>Name of company</b>	: TotalEnergies Corbion BV
Address	: The Netherlands Gorinchem Stadhuisplein 70
Zip code	: 4203 NS
Fax	: +31 183 695 600
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
<b>Recommended use</b>	: Plastic
<b>Restrictions on use</b>	: 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

Health hazards	: Acute toxicity (Oral) Not classified
Environmental hazards	: Hazardous to the aquatic environment – Acute hazard Not classified : Hazardous to the aquatic environment – Chronic hazard Not classified

Other hazards not mentioned above are Not applicable or No data is available.

#### Label elements

No data available

#### Physical and chemical hazards

No additional information available

#### Health hazards

Symptoms/effects : None known, Non-hazardous substance

#### Environmental hazards

# SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

## Luminy PDLA Neat resin

Compiled according to GB/T 16483, GB/T 17519

Version: 4.1

Revision date: 2022/10/30

Initial preparation date: 2017/11/23

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))
Poly lactide resin	9051-89-2	> 99

## SECTION 4 First aid measures

### Emergency

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

No additional information available

### 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

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire

### Special hazard

Hazardous decomposition products in case of fire : Under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon monoxide, Acetaldehyde

Explosion hazard : 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

# SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

## Luminy PDLA Neat resin

Compiled according to GB/T 16483, GB/T 17519

Version: 4.1

Revision date: 2022/10/30

Initial preparation date: 2017/11/23

- Protection during firefighting :
- 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 equipment
  - Self-contained breathing apparatus
  - Complete protective clothing

### SECTION 6 Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

- Heat and ignition sources : No flames, no sparks. Eliminate all sources of ignition
- General measures : No additional information available
- Personal Precautions, Protective Equipment and Emergency Procedures : No additional information available

#### 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"

- Environmental precautions : Avoid release to the environment

#### Methods and Equipment for Containment and Cleaning up

- Methods for cleaning :
- 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
- For containment :
- Stop leak without risks if possible
  - 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

# SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

## Luminy PDLA Neat resin

Compiled according to GB/T 16483, GB/T 17519

Version: 4.1

Revision date: 2022/10/30

Initial preparation date: 2017/11/23

Hygiene measures : 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

Local and general ventilation : No additional information available

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

Heat and ignition sources : No flames, no sparks. Eliminate all sources of ignition

Storage area : Store according to local legislation

## 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

Appropriate engineering controls : Ensure good ventilation of the work station  
Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment.

### Personal protective equipment

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.

Hand protection : Protective gloves

# SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

## Luminy PDLA Neat resin

Compiled according to GB/T 16483, GB/T 17519

Version: 4.1

Revision date: 2022/10/30

Initial preparation date: 2017/11/23

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

Type	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 mask.	(FFP2).	Dust protection.	EN 149.

Personal protective equipment symbol(s)



### SECTION 9 Physical and chemical properties

<b>Physical state</b>	: Solid
<b>Appearance</b>	: Pellet
<b>Colour</b>	: White, Opaque
<b>Odour</b>	: Odourless
<b>pH</b>	: No data available
<b>Melting point</b>	: 150 – 230 °C
<b>Freezing point</b>	: Not applicable
<b>Boiling point</b>	: Not applicable
<b>Flash point</b>	: Not applicable
<b>Auto-ignition temperature</b>	: Not applicable
<b>Decomposition temperature</b>	: > 230 °C.
<b>Flammability</b>	: Non flammable.
<b>Vapour pressure</b>	: No data available
<b>Relative vapour density at 20 °C</b>	: No data available
<b>Density</b>	: 1.2 – 1.3 g/cm <sup>3</sup>
<b>Solubility</b>	: insoluble in water.
<b>Partition coefficient n-octanol/water (Log Pow)</b>	: No data available
<b>Viscosity, kinematic</b>	: Not applicable
<b>Explosive limits (vol %)</b>	: Not applicable
<b>Lower explosion limit</b>	: No data available

# SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

## Luminy PDLA Neat resin

Compiled according to GB/T 16483, GB/T 17519

Version: 4.1

Revision date: 2022/10/30

Initial preparation date: 2017/11/23

<b>Upper explosion limit</b>	: No data available
<b>Radioactive</b>	: No
<b>Explosive properties</b>	: Not explosive
<b>Dust deflagration index</b>	: Not applicable

### SECTION 10 Stability and reactivity

<b>Reactivity</b>	: The product is non-reactive under normal conditions of use, storage and transport
<b>Chemical stability</b>	: Stable under normal conditions
<b>Possibility of hazardous reactions</b>	: 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
<b>Conditions to avoid</b>	: Above a temperature of: 230 °C / 446 °F. Protect from moisture. Avoid raising powdered materials into airborne dust, creating an explosion hazard
<b>Incompatible materials</b>	: Water, humidity
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced
<b>Other properties</b>	: No additional information available

### SECTION 11 Toxicological information

#### Acute toxicity

Acute toxicity (oral)	: Not classified.
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
-------------------------------	---------------------

#### 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



# SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

## Luminy PDLA Neat resin

Compiled according to GB/T 16483, GB/T 17519

Version: 4.1

Revision date: 2022/10/30

Initial preparation date: 2017/11/23

STOT-single exposure : No data available

### STOT-repeated exposure

STOT-repeated exposure : No data available

### Aspiration hazard

Aspiration hazard : No data available

Luminy PDLA 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) : Not classified.

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

No additional information available

### Persistence and degradability

Luminy PDLA 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.

### 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.

# SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

## Luminy PDLA Neat resin

Compiled according to GB/T 16483, GB/T 17519

Version: 4.1

Revision date: 2022/10/30

Initial preparation date: 2017/11/23

<b>Contaminated container and packaging</b>	: No additional information available
<b>Additional information</b>	: No additional information available
<b>Product/Packaging disposal recommendations</b>	: Dispose in a safe manner in accordance with local/national regulations Do not re-use empty containers without proper cleaning or reconditioning
<b>Regional legislation (waste)</b>	: 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
<b>UN number</b>		
Not regulated	Not regulated	Not regulated
<b>Proper shipping name</b>		
Not regulated	Not regulated	Not regulated
<b>Transport document description</b>		
Not regulated	Not regulated	Not regulated
<b>Transport hazard class(es)</b>		
Not regulated	Not regulated	Not regulated
Not regulated	Not regulated	Not regulated
<b>Packing group</b>		
Not regulated	Not regulated	Not regulated
<b>Environmental hazards</b>		
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)

<b>Inventory of Existing Chemical Substances in China (IECSC)</b>	: 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)
---	--



# SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

## Luminy PDLA Neat resin

Compiled according to GB/T 16483, GB/T 17519

Version: 4.1

Revision date: 2022/10/30

Initial preparation date: 2017/11/23

### SECTION 16 Other information

#### Abbreviations and acronyms

BCF	Bioconcentration factor
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
NOEC	No-Observed Effect Concentration
NOAEL	No-Observed Adverse Effect Level
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
TLM	Median Tolerance Limit
STP	Sewage treatment plant
SDS	Safety Data Sheet
OECD	Organisation for Economic Co-operation and Development
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.

#### Indication of changes

Address

Logo

TotalEnergies Corbion SDS CN (GB/T 17519-2013)

© Copyright 2017 TotalEnergies Corbion BV. All rights reserved. No part of this publication may be copied, downloaded, reproduced, stored in a retrieval system or transmitted in any form by any means, electronic, mechanical photocopied, recorded or otherwise, without permission of the publisher. No representation or warranty is made as to the truth or accuracy of any data, information or opinions contained herein or as to their suitability for any purpose, condition or application. None of the data, information or opinions herein may be relied upon for any purpose or reason. TotalEnergies Corbion BV disclaims any liability, damages, losses or other consequences suffered or incurred in connection with the use of the data, information or opinions contained herein. In addition, nothing contained herein shall be construed as a recommendation to use any products in conflict with existing patents covering any material or its use. TOTAL is a trademark owned and registered by Total S.A., used under license by TotalEnergies Corbion BV. CORBION is a trademark owned and registered by CORBION N.V. used under license by TotalEnergies Corbion BV