Safety Data Sheet Luminy PLA Neat resin

According to ABNT NBR 14725-4 Revision date:26/05/2021 Supersedes: 17/06/2020 Version: 4.0



SECTION 1: Identification of Product and Company

1.1. Product identifier

Name : Luminy PLA Neat resin

Trade name : Luminy® L105

Luminy® L130 Luminy® L175 Luminy® LX175 Luminy® LX175R Luminy® LX530 Luminy® LX575 Luminy® LX930 Luminy® LX975 Luminy® TGR1 Luminy® TGR2 Luminy® TGR3

Luminy® Development Grade

Recommended use : plastics

Restrictions on use : Pharmaceuticals, Medical device

1.2. Company identification

Supplier

Total Corbion PLA
Stadhuisplein 70
4203 NS Gorinchem - The Netherlands
T +31 183 695 695 - F +31 183 695 600
pla@total-corbion.com

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 GHS BR (ABNT NBR 14725)

Chemical product not classified as hazardous according to ABNT standard 14725-2

2.2. Label elements

GHS BR labelling

No labelling applicable

2.3. Other hazards not contributing to the classification

Warning. Potential dust explosion hazard. Dust may form explosive mixture in air.

SECTION 3: Composition/information on ingredients

3.1. Substances

CAS-No. : 9051-89-2 Substance type : Polymer

Name : Luminy PLA Neat resin

CAS-No. : 9051-89-2 EC-No. : 618-575-7

Name	Product identifier	Conc. (% w/w)
Polylactide resin	(CAS-No.) 9051-89-2	99 – 100

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

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4.1. Description of 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.

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

Notes to physician : Treat symptomatically
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

Fire hazard : No fire hazard.

Explosion hazard : Dust can form an explosive mixture with air.

Reactivity in case of fire : Under fire conditions, hazardous fumes will be present: Carbon monoxide, Carbon dioxide,

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 : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

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.

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

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".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

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 : 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

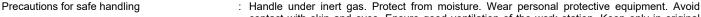
7.1. Precautions for safe handling

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

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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.

Handling temperature : < 50 °C

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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a cool, well-ventilated place. Protect from moisture.

Incompatible materials : Water, humidity.

Storage temperature < 50 °C

Storage area : Store according to local legislation.

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

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

Additional information : Contains no substances with occupational exposure limits

8.2. **Exposure 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.

Environmental exposure controls : Avoid release to the environment.

Personal protective equipment 8.3.

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:

Wear recommended personal protective equipment.

Hand protection:

Protective aloves

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

Skin and body protection:

Long sleeved protective clothing

Туре	Standard
Long sleeved protective clothing	

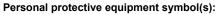
Respiratory protection:

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 mask	(FFP2)	Dust protection	EN 149

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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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Pellet.

Colour : White, Opaque Odour Odourless Odour threshold Not available Not available рΗ Melting point : 150 - 230 °C Freezing point Not available Boiling point Not available Not available Flash point Relative evaporation rate (butylacetate=1) : Not available Flammability (solid, gas) Not available Explosive limits Not available Vapour pressure : Not available Relative vapour density at 20 °C : Not available Relative density : Not available Density : 1,2 - 1,3 g/cm³ Solubility : insoluble in water.

Partition coefficient n-octanol/water (Log Kow) : Not available
Auto-ignition temperature : Not available
Decomposition temperature : > 230 °C
Viscosity, kinematic : Not available
Viscosity, dynamic : Not available

9.2. Other information

Not available

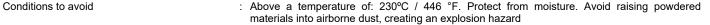
SECTION 10: Stability and reactivity

Chemical stability : Stable under normal conditions



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Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be

produced

Incompatible materials : Water, humidity

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

Handling temperature : < 50 °C

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

11.2. Most important symptoms and effects, both acute and delayed

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

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 available

Hazardous to the aquatic environment, long-

: Not available

term (chronic)

12.2. 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.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations.

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

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.

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SECTION 14: Transport information

14.1 National and international Regulations

Not regulated for transport

14.2 Other information

No additional information available

SECTION 15: Regulatory information

Brazil Local Regulations

: Standard ABNT NBR 14725.

Federal Decree no. 2.657, of 3 July 1998 – Promulgates Convention no. 170 of the WLO, relating to Safety in the Use of Chemicals in the Workplace, signed in Geneva, on 25 June 1990.

Ministerial Order no. 229, of 24 May 2011 – Modifies Regulatory Standard no. 26

Resolution no. 5232, of 14 December 2016, approving the supplementary instructions to the

Regulation on the Inland Transport of Dangerous Goods and other provisions.

Regulatory reference : Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the Canadian DSL (Domestic Substances List) Listed on the AICS (Australian Inventory of Chemical Substances)

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 (National Chemicals Inventory)

SECTION 16: Other information

Abbreviations and acronyms

NOAEL - No-Observed Adverse Effect Level

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE - Acute Toxicity Estimate

BCF - Bioconcentration factor

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

DOT - Department of Transportation (DOT)

DNEL - Derived-No Effect Level

DMEL - Derived Minimal Effect level

EC50 - Median effective concentration

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

IMDG - International Maritime Dangerous Goods

LC50 - Median lethal concentration

vPvB - Very Persistent and Very Bioaccumulative

TLM - Median Tolerance Limit

STP - Sewage treatment plant

SDS - Safety Data Sheet

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC)

No 1907/2006

PNEC - Predicted No-Effect Concentration

PBT - Persistent Bioaccumulative Toxic

NOEC - No-Observed Effect Concentration

OECD - Organisation for Economic Co-operation and Development

Indication of changes:

Trade name. Address. Fire fighting measures.

Total Corbion SDS Brazil

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Safety Data Sheet



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