

SAFETY DATA SHEET

This document was created according to regulation (EC) No. 1907/2006 (REACH)

Generic EU MSDS -not country specific

Revision date: 01.07.2026

Version: 1.2

VerdiBlot- Polycaprolactone (PCL) Western Blot Membrane

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers:

Product Name: VerdiBlot- Transfer membrane for western blotting

Polycaprolactone Western Blot Membrane

Product Number: 260101, 260102, 260103, 260201, 260202, 260203

REACH number: A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration.

CAS number: 24980-41-4

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

Recommended use: Laboratory chemicals

Uses advised against: not available

1.3. Details of the supplier of the safety data sheet

LAM-X a.s.
Inovační 122
252 41
Zlatníky-Hodkovice
Czech Republic

Contact for information regarding the SDS: info@verdiblot.com or info@lam-x.tech

1.4. Emergency telephone number

Emergency Phone # : +420 228880039(CHEMTREC)

Section 2. Hazards Identification

2.1. Classification of the substance or mixture:

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements:

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

2.3. Other hazards:

This substance does not contain a PBT or a vPvB.

Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

Label elements:

- Pictograms: None
- Signal word: None
- Hazard statements: None required

Other hazards:

- Combustible solid if exposed to ignition source
- May cause mild mechanical irritation (edges/fragments)
- Thermal decomposition may generate irritating fumes

Section 3. Composition/information on ingredients

3.1 Substances

Formula: $(C_6H_{10}O_2)_x$ -

CAS number: 24980-41-4

No additives, coatings, plasticizers, or residual solvents.

Section 4. First Aid Measures

4.1. Description of first aid measures

If inhaled	Fresh air
If in contact with skin	Take off all contaminated clothing, rinse skin with water
If in contact with eyes	Rinse with copious amounts of water for at least 10 min
If swallowed	Drink 1- 2 glasses of water and contact doctor if feeling unwell.

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

See Section 2.2 and 11 where most important and known symptoms are described

4.3. Indication of any immediate medical attention and special treatment needed

No data available

Section 5. Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media: Water, Foam, Carbon dioxide (CO₂), Dry powder

Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Carbon oxides

Combustible

Vapors are heavier than air and may spread along floors

Forms explosive mixtures with air on intense heating

Development of hazardous combustion gases or vapors possible in the event of fire

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Use the product with adequate ventilation and avoid contact with eyes

For emergency responders: Take note of information in Section 8.

6.2. Environmental precautions

Keep away from drains, surface and ground water.

6.3. Methods and material for containment and cleaning up

Cover drains
Collect, bind and pump of spills
Take up dray and dispose of it properly
Clean up affected area
Avoid dust generation

6.4. Reference to other sections

Dispose according to Section 13

Section 7. Handling and Storage

7.1. Precautions for safe handling

Avoid dust formation, wash hands after work, keep away from food and drinks.

7.2. Conditions for safe storage, including any incompatibilities

Store in dry place, preferably at room temperature (10-25 °C).

Storage Class: TRGS 510: 11- Combustible solids

7.3. Specific end use(s)

Apart from uses mentioned in sections 1.2 the membrane might be used as an essential part of in vitro diagnostic devices.

Section 8. Exposure Controls / Personal Protection

8.1. Control parameters

No exposure limit value known.

8.2. Exposure controls

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection: This recommendation applies only to the product stated in the safety data sheet, supplied by LAM-X and for the designated use. Use Nitrile rubber with a minimum thickness of 0.11 mm.

Respiratory protection

Only required when dust is generated.

Recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P1

These measures must be properly documented.

Control of environmental exposure

Do not let the product enter drains.

Section 9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

a) Physical state:	Solid – porous sheets
b) Color:	White
c) Odor:	Not available
d) Melting point:	~55–65 °C
e) Initial boiling point:	Starts decomposition at 200 °C
f) Flammability (solid, gas):	The material is combustible but does not ignite readily
g) Upper/lower flammability or explosive limits:	Not available
h) Flash point:	Not determined
i) Autoignition temperature:	Not available
j) Decomposition temperature:	> 200 °C
k) pH:	Not available
l) Viscosity:	Not available
m) Water solubility:	Not soluble
n) Partition coefficient (n-octanol/water):	Not available
o) Vapor Pressure:	Not available
p) Density:	40 ± gsm
q) Relative vapor density:	Not applicable (solid)
r) Particle characteristics:	Not available
s) Explosive properties:	Not available
t) Oxidizing properties:	None

Section 10. Stability and Reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

No information available

10.6 Hazardous decomposition products

Hazardous combustion products (CO, CO₂, organic vapors): see section 5.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity Oral: No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

11.2 Additional Information

There is no additional information.

Section 12. Ecological Information

12.1 Toxicity

No Data available

12.2 Persistence and degradability

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

Acc. To EN 14995 the product fully degrades in composting environment after 8 weeks.

12.3 Bioaccumulative potential

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

12.4 Mobility in soil

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

12.5 Results of PBT and vPvB assessment

This substance is not bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

No data available.

Section 13. Disposal Considerations**13.1. Waste treatment methods**

Dispose of this material according to the requirements of environmental protection and waste management legislation of the local government. The product is not considered as hazardous waste according to the definition by EU Directive 91/689/EEC.

Section 14. Transport Information**14.1 UN number**

ADR/RID: ---

IMDG: ---

IATA: ---

14.2 UN proper shipping name

Not dangerous good (ADR/RID, IMDG, IATA)

14.3 Transport hazard class(es)

ADR/RID: ---

IMDG: ---

IATA: ---

14.4 Packaging group

ADR/RID: ---

IMDG: ---

IATA: ---

14.5 Environmental hazards

ADR/RID: no

IMDG: not a marine pollutant

IATA: no

14.6 Special precautions for user

Not regulated as dangerous goods (ADR/RID, IMDG, IATA)

Section 15. Regulatory Information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

Section 16. Other Information

To the best of our knowledge the above listed information is correct, however does not claim to be inclusive and serves only as a guide. The information in the document is based on the present state of LAM-X a.s. knowledge and is applicable to the product regarding safety precautions. In any case it does not represent any guarantee of the properties of the product. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. LAM-X a.s. shall not be held liable for any damage resulting from the handling, mishandling or from any contact with the above product.