



SAFETY DATA SHEET

PEGDA X

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 25.05.2023

1.1. Product identifier

Product name PEGDA X

Article no. 5435-10ML

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

Use of the substance / mixture For use as a bioink for 3D bioprinting, tissue engineering, drug delivery, and microfluidics. Not for human use, for research use only.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name CELLINK Bioprinting AB

Postal address Långfilsgatan 1

Postcode 412 76

City Gothenburg

Country Sweden

Telephone number +4631128700

Email support@cellink.com

1.4. Emergency telephone number

Emergency telephone Telephone number: 112
Description: Emergency telephone (EU)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

In compliance with ATP nr. CLP00-1272/2008

Substance / mixture hazardous properties Skin irritation (Category 2)
Skin sensitization (Category 1)

Serious eye damage (Category 1)

2.2. Label elements

Hazard pictograms (CLP)



Signal word	Danger
Hazard statements	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage.
Precautionary statements	P261 Avoid breathing dust / fume / gas / mist / vapours / spray. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves / protective clothing / eye protection / face protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor / physician. P333+P313 If skin irritation or rash occurs: Get medical advice / attention. P362 Take off contaminated clothing. P501 Dispose of contents / container to disposal plant

2.3. Other hazards

PBT / vPvB	No data recorded.
Health effect	Causes skin irritation. Causes serious eye damage. The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals.

SECTION 3: Composition / information on ingredients

3.1. Substances

Substance type	Organic			
Composition type	Mixture			
Substance	Identification	Classification	Contents	Notes
Poly (ethylene glycol) diacrylate	CAS No.: 26570-48-9 EC No.: 607-960-5	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317	< 60 %	1

¹Substance classified with a health or environmental hazard

SECTION 4: First aid measures

4.1. Description of first aid measures

General	No information.
Inhalation	Move into fresh air and keep at rest. If respiratory problems, artificial respiration/ oxygen.

Skin contact	Remove contaminated clothes and rinse skin thoroughly with water. Consult a physician for specific advice
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Immediately call a POISON CENTER or doctor/physician.
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Immediately rinse mouth and drink plenty of water (200-300 ml). Never give liquid to an unconscious person.

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

General symptoms and effects	No data recorded.
Acute symptoms and effects	No data recorded.
Delayed symptoms and effects	No data recorded.

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

Medical treatment	No data recorded.
Separate first aid equipment	No data recorded.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with water fog. Foam, carbon dioxide or dry powder.
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5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	No data recorded.
Hazardous combustion products	Carbon oxides (COx)

5.3. Advice for firefighters

Personal protective equipment	In case of inadequate ventilation wear respiratory protection.
Fire fighting procedures	Avoid breathing fire vapours. Dike and collect extinguishing water.
Other information	Stop leak if safe to do so. Wear self-contained respirator. Wear fully protective impervious suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Collect spillage.
Personal protection measures	Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautionary measures	None required.
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6.3. Methods and material for containment and cleaning up

Containment	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Clean up	Flush with plenty of water and detergent to clean spillage area.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	For precautions see section 2.2
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Protective safety measures

Preventitive measures to protect the environment	Do not let product enter drains.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Recommended storage temperature. Light sensitive. Keep container tightly sealed in a dry and well-ventilated place. Store in the dark. Protect from heat.
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Conditions for safe storage

Storage temperature	Value: 2 - 10 °C
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7.3. Specific end use(s)

SECTION 8: Exposure controls / personal protection

Comments if preventive industrial medical examinations are to be carried out	This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
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8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Poly (ethylene glycol) diacrylate	CAS No.: 26570-48-9		
Control parameters comments	This product does not contain any relevant quantities of materials with exposure limits that must be monitored in the workplace		

8.2. Exposure controls

Safety signs



Eye / face protection

Required Properties	Wear approved chemical safety goggles where eye exposure is reasonably probable.
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Hand protection

Skin- / hand protection, short term contact	Nitrile gloves are recommended. If signs of wear and tear are noticed then the gloves should be replaced.
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Skin- / hand protection, long term contact	Nitrile gloves are recommended.
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Skin protection

Suitable protective clothing	Wear suitable protective clothing as protection against splashing or contamination.
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Respiratory protection

Recommended type of equipment	In case of inadequate ventilation wear respiratory protection.
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Hygiene / environmental

Specific hygiene measures	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.
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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	Liquid
Colour	Yellow
Odour	No data recorded.
Flammability	No data recorded.
Oxidising properties	No data recorded.

9.2. Other information**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reactivity	No data recorded.
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10.2. Chemical stability

Stability	Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No data recorded.
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10.4. Conditions to avoid

Conditions to avoid Elevated temperatures, sunlight, UV, or ionising radiation.

10.5. Incompatible materials

Materials to avoid Strong oxidising substances. Amines.

10.6. Hazardous decomposition products

Hazardous decomposition products Hazardous decomposition products formed under fire conditions: See section 5.

SECTION 11: Toxicological information

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

Other information regarding health hazards

Acute toxicity, human experience	No data recorded.
General respiratory or skin sensitisation	Category 1.
Inhalation	No data recorded.
Eye contact	Causes serious eye irritation.
Ingestion	No data recorded.
Sensitisation	May cause an allergic skin reaction.
Mutagenicity	No data recorded.
Carcinogenicity, other information	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA, or ACGIH
Reproductive toxicity	No data recorded.

Symptoms of exposure

In case of ingestion	No data recorded.
In case of skin contact	May cause sensitisation by skin contact. Irritating to skin.
In case of inhalation	No data recorded.
In case of eye contact	Serious eye damage/irritation.

11.2 Other information

Other information To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity No data recorded.

12.2. Persistence and degradability

Persistence and degradability description/evaluation No negative effects on the aquatic environment are known.

12.3. Bioaccumulative potential

Bioaccumulation, evaluation Bioaccumulation: Is not expected to be bioaccumulative.

12.4. Mobility in soil

Mobility No data recorded.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

12.7. Other adverse effects

Additional ecological information No data recorded.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Consult state, local, or national regulations to ensure proper disposal. Contact a licensed professional waste disposal service to dispose of this material.
Appropriate methods of disposal for the contaminated packaging	Confirm disposal procedures with environmental engineer and local regulations.
EU Regulations	No data recorded.
National regulations	No data recorded.

SECTION 14: Transport information

Dangerous goods No

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

ADR/RID/ADN	None.
IMDG	None.
ICAO/IATA	None.

14.6. Special precautions for user**14.7. Maritime transport in bulk according to IMO instruments**

Transport in bulk (yes/no)	Yes
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ADR/RID Other information

Limited quantity	No data recorded.
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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**

Assessed restrictions	None.
Restriction of chemicals according to Annex XVII (REACH)	None.
EU occupational restrictions	No data recorded.
National regulations	No data recorded.

15.2. Chemical safety assessment

Chemical safety assessment	No data recorded.
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SECTION 16: Other information

Supplier's notes	The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.
List of relevant H-phrases (Section 2 and 3)	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage.
Version	1
URL for technical data	https://www.cellink.com/product/pegda-stiff/