



Bio-propanediol

Version: III

Date of compilation: 28.05.2025

Revision date: 13.11.2025

Safety Data Sheet

legal basis:

Commission regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

1.1. Product identifier

Trade name:	Bio-propanediol
REACH registration number	01-2119489383-28-XXXX
Composition for label/Other name(s)	Propane-1,3-diol,

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

Identified uses

Uses:

Cosmetic additive. Use in industry.

Uses advised against:

other than named above

1.3. Details of the supplier of the safety data sheet

Name and address:	EcoFlores ul. Waksmundzka 34 34-400 Nowy Targ, Polska
Phone number:	www.ecoflores.eu
e-mail address for a competent person responsible for the safety data sheet:	kontakt@ecoflores.eu T: 604-508-229

1.4. Emergency telephone number

998 or 112, or contact with the nearest local Fire Department

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

General hazards

This product is not classified as hazardous according to current regulations

Health hazards

not applicable

Physical hazards

not applicable

Environmental hazards

not applicable

2.2. Label elements

Hazard pictograms:

Signal Word:

Signal word is not required

Hazard statements:

Produkt is not classified as hazardous according to obligatory regulation

2.3. Other hazards

This substance does not fulfill the PBT or vPvB criteria according to Annex XIII to REACH Regulation (EC) 1907/2006

The product does not contain substance identified as having endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance	CAS	EC	Index number	REACH registration number	Hazard class
Propane-1,3-diol	504-63-2	207-997-3	not applicable	01-2119489383-28-XXXX	not applicable

SECTION 4: First aid measures

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4.1. Description of first aid measures**Inhalation**

Move the victim to fresh air. If unconscious place in recovery position. Ensure doctor's assistance.

Skin contact

No hazards which require special first aid measures.

Eye contact

No hazards which require special first aid measures.

Ingestion

No hazards which require special first aid measures.

4.2. Most important symptoms and effects, both acute and delayed**Symptoms and effects:****Symptoms and effects**

no data available

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

If symptoms persist, ensure a physician aid. Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

water, dry powder, foam, carbon dioxide (CO₂)

Unsuitable extinguishing media

No data available.

5.2. Special hazards arising from the substance or mixture

Fire may produce: toxic gases/vapors.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2. Environmental precautions

Do not allow contact with soil, surface or ground water. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Spills cover with non-combustible absorbent. e.g. sand. Earth. Kieselguhr. Pick up and transfer to properly labelled containers. Transfer for disposal.

6.4. Reference to other sections

More information about suitable personal protective equipment is given in section 8.

Dispose of in accordance with the recommendations given in Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Use personal protective equipment, Smoking, eating and drinking should be prohibited in the application area. Wash hands before every break and after work. Remove contaminated clothing and protective equipment before entering eating areas. Ensure suitable ventilation. Protect from excessive heating.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect against contamination. Storage under nitrogen atmosphere is recommended. Store away from incompatible materials (see section 10 of MSDS).

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****DNEL value****Comments**

For this product DNEL value has not been derived

PNEC value**Comments**

For this product PNEC value has not been calculated

Occupational exposure limits**Comments**

For this product OELs value has not been established.

Poland. OELs - Regulation of the Minister of Family, Labour and Social Policy, of 12 June 2018; Journal of Laws 2018, item 1286 as amended.

Biological limit values comments

not available

Recommended monitoring procedures

Regulation of the Minister of Health on tests and measurements applicable for hazardous substances and other adverse factors which are present in the workplace, of 2 February 2011 (Journal of Laws No33, item 166).

8.2. Exposure controls

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Appropriate engineering controls

Provide adequate ventilation.

Individual protection measures**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

Eye /face protection

Safety glasses with side-shields

Skin and hand protection

Safety gloves

Other protection equipment

Protective clothing

Reference to regulations

Individual protection measures should satisfy the requirements specified in the Regulation (EU) 2016/425 of the European Parliament and of the Council on basic requirements for personal protective equipment, of 9 March 2016.

General advice

Do not eat, drink or smoke when using this product. Wash hands before every break and at the end of workday. Remove and wash contaminated clothing before re-use.

Environ. exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	liquid		
Colour:	colorless	clear	
Odour threshold:			
Odour:	odourless	no data available	
Melting point/freezing point:	-27 °C		
Boiling point or initial boiling point and boiling range:	210 - 214 °C		
Flammability:	Not flammable product.		
Lower and upper explosion limit:	no data available		
Flash point:	> 99 °C		
Auto-ignition temperature:	400 °C		
Decomposition temperature:	no data available		
pH:	no data available		
Kinematic viscosity:	44,923 mm²/s	24 °C	
Solubility:	Water.	> 1 000 g/l	21 °C
Partition coefficient: n-octanol/water (log value):	No data available.		
Vapour pressure:	3,91 Pa	25 °C	
Density and/or relative density:	Relative density.	1,05	25 °C
Relative vapour density:	no data available		
Particle characteristics:	not applicable		

9.2. Other information

Information with regard to physical hazard classes:	Surface tension:	74,161 mN/m	21 °C
	Molecular weight	76,1	
Other safety characteristics:	no data available		

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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known, if the regulations/notes for storage and handling are considered.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No decomposition if stored and used as directed.

10.4. Conditions to avoid

Do not expose to temperatures above: 129°C

10.5. Incompatible materials

Oxidizing agents. Strong acids.

10.6. Hazardous decomposition products

Fire may produce: toxic gases/vapors.

SECTION 11: Toxicological information

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

Acute oral toxicity

Propane-1,3-diol	LD50	14,9 ml/kg	Rat
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Acute dermal toxicity

Propane-1,3-diol	LD50	> 4 200 mg/kg	Rat
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Acute inhalation toxicity

Propane-1,3-diol	> 5 mg/l	4 h	Rat	aerosol
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Acute toxicity - other exposure routes

No data available.

Skin corrosion/irritation

Propane-1,3-diol	May cause slight irritation	Rabbit	Based on available data, the classification criteria are not met.
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Serious eye damage/irritation

Propane-1,3-diol	May cause slight redness and itching of eyes	Rabbit	Based on available data, the classification criteria are not met.
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Respiratory sensitisation

No data available.

Skin sensitisation

Propane-1,3-diol	not sensitizing	Guinea pig
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Germ cell mutagenicity

Summary

No data available.

Carcinogenicity

Summary

No data available.

Reproductive toxicity

Propane-1,3-diol	Rat	negative
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Summary

Based on available data, the classification criteria are not met.

STOT-single exposure

Summary

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Summary

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

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no data available

Symptoms related to the physical, chemical and toxicological characteristics

no data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

no data available

11.2. Information on other hazards**Endocrine disrupting properties**

The product does not contain substance identified as having endocrine disrupting properties.

Other information

no data available

SECTION 12: Ecological information**12.1. Toxicity**

Propane-1,3-diol	Toxicity to fish	LC50	> 9 720 mg/l	96 h
	Toxicity to aquatic invertebrates	EC50	7 417 mg/l	48 h
	Toxicity to algae	EC50	10 000 mg/l	72 h
	Toxicity to microorganisms	EC50	> 6 000 mg/l	16 min
	Chronic toxicity to aquatic invertebrates	NOEC	>= 100 mg/l	

Summary

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Propane-1,3-diol	Biodegradability	71 %	28 days	OECD Test Guideline 301B
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Summary

Readily biodegradable

12.3. Bioaccumulative potential

Propane-1,3-diol	Partition coefficient: n-octanol/water	LogPow	<= 3
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Summary

Low bioaccumulative potential

12.4. Mobility in soil**Summary**

no data available

12.5. Results of PBT and vPvB assessment

This substance does not fulfill the PBT or vPvB criteria according to Annex XIII to REACH Regulation (EC) 1907/2006

12.6. Endocrine disrupting properties

The product does not contain substance identified as having endocrine disrupting properties.

12.7. Other adverse effects

no data available

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Comply with below named regulations:

Waste Disposal Law, of 14 December 2012 (Journal of Laws 2013, item 21), with further amendments.

Law on packages and spent packages, of 13 June 2013 (Journal of Laws 2013, item 888) as amended.

Regulation of the Minister of Climate of 2 January 2020 on a catalog of waste (Journal of Laws 2020, item 10).

Suggested waste code: 07 01 99 Wastes not otherwise specified.

Dispose of in accordance with current legislation concerning Waste disposal.

Waste packaging should be recycled. Packaging that can not be cleaned, should be disposed of like the product.

SECTION 14: Transport information**14.1. UN number or ID number**

Transport type	UN Number
ADR	N/A
RID	N/A
IMDG	N/A
ICAO	N/A
ADN	N/A

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14.2. UN proper shipping name

Transport type	UN proper shipping name
ADR	not subject to transport regulations
RID	not subject to transport regulations
IMDG	not subject to transport regulations
ICAO	not subject to transport regulations
ADN	not subject to transport regulations

14.3. Transport hazard class(es)

Transport type	Transport hazard class:	Classification code:	Hazard identification number:	Tunnel restriction code:	Labels numbers:
ADR	not relevant	not relevant	not relevant	-	none
RID	not relevant	not relevant	not relevant	-	none
IMDG	not relevant				none
ICAO	not relevant				none
ADN	not relevant				none

14.4. Packing group

Transport type	Packing group:
ADR	not relevant
RID	not relevant
IMDG	not relevant
ICAO	not relevant
ADN	not relevant

14.5. Environmental hazards

The product does not pose a hazard to the environment in accordance with the criteria of the UN Model Regulations.

14.6. Special precautions for user

not available

14.7. Maritime transport in bulk according to IMO instruments

not available

SECTION 15:Regulatory information

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

ACT of 25 February 2011 on the chemical substances and their mixtures, with further amendments.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ L 353, 31.12.2008, p. 1).

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16:Other information

Changes of previous version

General revision

Key or legend to abbreviations and acronyms used in the safety data sheet

Asp. Tox. - Aspiration hazard

Aquatic Acute - Hazardous to the aquatic environment - Acute

Aquatic Chronic - Hazardous to the aquatic environment - Chronic

Ozone - Hazardous for the ozone layer

Lact. - Effects on or via lactation

NDS - Maximum permissible exposure level/concentration

NDSCH - Maximum short-term exposure level/concentration

NDSP - Maximum permissible ceiling exposure level/concentration

vPvB (Substance) - very persistent and very bioaccumulating

PBT (Substance) - persistent, bioaccumulating and toxic

PNEC - Predicted No Effect Concentration

DNEL - Derived No Effect Level

LD50 - Lethal dose 50; dose/amount of a substance which kills 50 % of the test population

LC50 - Lethal concentration; concentration of a substance which kills 50 % of the test population

LOEC - Lowest Observed Effect Concentration

NOEL - No Observed Effect Level

NOEC - No Observed Effect Concentration

ECX - Effective concentration; concentration of a substance which produces X % effect response

ADR - Agreement Concerning the International Carriage of Dangerous Goods by Road

ADN - Agreement Concerning the International Carriage of Dangerous Goods by Inland Waters

RID - Regulations Concerning the International Carriage of Dangerous Goods by Rail

IMDG - International Maritime Dangerous Goods Code

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ICAO/IATA – International Civil Aviation Organization/International Air Transport Association
UVCB - Substances of Unknown or Variable composition, Complex reaction products or Biological materials
STOT RE - Specific target organ toxicity — repeated exposure
Expl. - Explosive
Flam. Gas - Flammable gas
Flam. Aerosol - Flammable aerosol
Ox. Gas - Oxidising gas
Press. Gas - Gases under pressure
Flam. Liq. - Flammable liquid
Flam. Sol. - Flammable solid
Self-react. - Self-reactive substance or mixture
Pyr. Liq. - Pyrophoric liquid
Pyr. Sol. - Pyrophoric solid
Self-heat. - Self-heating substance or mixture
Water-react. - Substance or mixture which in contact with water emits flammable gas
Ox. Liq. - Oxidising liquid
Ox. Sol. - Oxidising solid
Org. Perox. - Organic peroxide
Met. Corr. - Substance or mixture corrosive to metals
Acute Tox. - Acute toxicity
Skin Corr. - Skin corrosion
Skin Irrit. - Skin irritation
Resp. Sens. - Respiratory sensitization
Skin Sens. - Skin sensitization
Muta. - Germ cell mutagenicity
Carc. - Carcinogenicity
Repr. - Reproductive toxicity, Category 1A
STOT SE - Specific target organ toxicity — single exposure

Key literature references and sources for data

This safety data sheet has been prepared based on the MSDS provided by the manufacturer or / and internet databases and current regulations.

Advice on any training appropriate for workers to ensure protection of human health and the environment

People involved in the handling of the product should be trained in the handling, safety and hygiene.

List of relevant hazard statements and/or precautionary statements

not applicable

Produkt is not classified as hazardous according to obligatory regulation

Other Information

This safety data sheet is prepared to provide downstream users information about product.

This product is not classified as hazardous . Exposure scenarios are not required.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product in terms of safety requirements.

These data can not be considered in any case describe the product (as product specification).

Safety data sheet for this product is not required according to REACH Regulation (EC) 1907/2006.

This safety data sheet is prepared to provide downstream users with information according to Article 32 of Reach Regulation (EC) 1907/2006