

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

MON.PROP.GLYC.FEED (FEEDMAT+TRP: GMP+ FSA ASSURED)

Version 1.0

Print Date 02.02.2023

Revision date / valid from 06.09.2022

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

1.1. Product identifier

Trade name : MON.PROP.GLYC.FEED (FEEDMAT+TRP: GMP+ FSA ASSURED)
Substance name : Propane-1,2-diol
CAS-No. : 57-55-6
EC-No. : 200-338-0
EU REACH-Reg. No. : 01-2119456809-23-xxxx
REACH Status : Supplier confirmed compliance of substance/substances in product with REACH (Regulation (EC) No 1907/2006)

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.
Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag N.V.
Nijverheidslaan 38
BE 8540 Deerlijk
Telephone : +32 (0)56 77 6944
Telefax : +32 (0)56 77 5711
E-mail address : info@brenntag.be
Responsible/issuing person : Master Data Administration

Company : Brenntag Nederland B.V.
Donker Duyvisweg 44
NL 3316 BM Dordrecht
Telephone : +31 (0)78 65 44 944
Telefax : +31 (0)78 65 44 919
E-mail address : info@brenntag.nl
Responsible/issuing person : Master Data Administration

1.4. Emergency telephone number

Emergency telephone number : Belgium: Antipoison Center - Brussels TEL: +32(0)70 245 245
Netherlands: National Poisoning Information Center - Bilthoven
TEL: +31(0) 88 755 8000 (Only for the purpose of informing)

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medical personnel in cases of acute intoxications)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

Most important adverse effects

- Human Health : See section 11 for toxicological information.
- Physical and chemical hazards : See section 9/10 for physicochemical information.
- Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is not labeled as dangerous according to Regulation (EC) No. 1272/2008.

Additional Labelling:

Handle in accordance with good industrial hygiene and safety practice.

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: No information available about endocrine disruption properties for environment.

Toxicological information: No information available about endocrine disruption properties for human health.

Combustible liquid.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical nature : Substance

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Non-hazardous component

Chemical name	Identification Number	Amount [%]
Propane-1,2-diol	CAS-No. : 57-55-6 EC-No. 200-338-0 REACH-Reg. No. 01-2119456809-23-xxxx	<= 100

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	: Move out of dangerous area. Take off all contaminated clothing immediately. If symptoms call a physician.
If inhaled	: Remove to fresh air. If symptoms persist, call a physician.
In case of skin contact	: Wash off with soap and water. If skin irritation persists, call a physician.
In case of eye contact	: Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

Symptoms	: Effects of breathing high concentrations of vapour may include: Tiredness, Dizziness, Disorder of the central nervous system. See Section 11 for more detailed information on health effects and symptoms.
Effects	: Health injuries are not known or expected under normal use. See Section 11 for more detailed information on health effects and symptoms.

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

Treatment	: Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing	: Water spray, foam, dry powder or CO ₂ .
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media
Unsuitable extinguishing media : High volume water jet
media

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : The product is not flammable. Hazardous decomposition products formed under fire conditions.
Hazardous combustion products : Carbon monoxide, Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Choose protective equipment according to size of fire.
Further advice : Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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

Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

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

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Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Suitable materials for containers: Stainless steel; Copper; Aluminium; Nickel

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Product is hygroscopic.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Keep away from oxidizing agents.

Storage temperature : < 40 °C

Suitable packaging materials : Stainless steel, aluminium, High density polyethylene (HDPE), lightproof

7.3. Specific end use(s)

Specific use(s) : For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other Occupational Exposure Limit Values

(Additional) Information : Contains no substances with occupational exposure limit values.
Contains no substances with occupational exposure limit values.

Component:	Propane-1,2-diol	CAS-No. 57-55-6
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL
Workers, Long-term - systemic effects, Inhalation : 168 mg/m³

DNEL
Workers, Long-term - local effects, Inhalation : 10 mg/m³

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DNEL		
Consumers, Long-term - systemic effects, Skin contact	:	213 mg/kg bw/day
DNEL		
Consumers, Long-term - systemic effects, Inhalation	:	50 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Ingestion	:	85 mg/kg bw/day
DNEL		
Consumers, Long-term - local effects, Inhalation	:	10 mg/m ³

Predicted No Effect Concentration (PNEC)

Fresh water	:	260 mg/l
Marine water	:	26 mg/l
Intermittent releases extrapolated	:	183 mg/l
Fresh water sediment	:	572 mg/kg d.w.
Marine sediment	:	57,2 mg/kg d.w.
Soil	:	50 mg/kg d.w.
Sewage treatment plant (STP) extrapolated	:	2000 mg/l
Secondary poisoning extrapolated	:	1133 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : Required if vapours or aerosol are released.
In case of brief exposure or low pollution use breathing filter apparatus.
Respiratory protection complying with EN 141.
Recommended Filter type:
Combination filter: A-P2
In case of intensive or longer exposure use self-contained breathing apparatus.

MON.PROP.GLYC.FEED (FEEDMAT+TRP: GMP+ FSA ASSURED)*Hand protection*

Advice : Protective gloves complying with EN 374.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Protective gloves should be replaced at first signs of wear.

Material : Natural Rubber
Break through time : ≥ 8 h
Glove thickness : 0,5 mm

Material : polychloroprene
Break through time : ≥ 8 h
Glove thickness : 0,5 mm

Material : Nitrile rubber
Break through time : ≥ 8 h
Glove thickness : 0,35 mm

Material : butyl-rubber
Break through time : ≥ 8 h
Glove thickness : 0,5 mm

Material : Fluorinated rubber
Break through time : ≥ 8 h
Glove thickness : 0,4 mm

Material : Polyvinylchloride
Break through time : ≥ 8 h
Glove thickness : 0,5 mm

Eye protection

Advice : Goggles giving complete protection to the eyes

Skin and body protection

Advice : Protective work clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
If the product contaminates rivers and lakes or drains inform respective authorities.

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If material reaches soil inform authorities responsible for such cases.

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

Form	:	liquid
Physical state	:	liquid
Colour	:	colourless
Odour	:	odourless
Odour Threshold	:	Not applicable
Melting point/range	:	-59 °C
Boiling point/boiling range	:	184 °C (1003,2 hPa)
Flammability (solid, gas)	:	Product is a liquid, see section 9.2.
Upper explosion limit / Upper flammability limit	:	12,6 %(V) 400.000 mg/m ³
Lower explosion limit / Lower flammability limit	:	2,6 %(V) 80.000 mg/m ³
Flash point	:	104 °C
Auto-ignition temperature	:	> 400 °C Method: EEC Method A.15
Decomposition temperature	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	6,4 (20 °C) Concentration: 500 g/l
Viscosity		
Viscosity, dynamic	:	43,43 mPa.s (25 °C)
Viscosity, kinematic	:	42,1 mm ² /s (25 °C)
Flow time	:	No data available
Solubility(ies)		
Water solubility	:	completely miscible
Solubility in other solvents	:	No data available

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Dissolution Rate	:	No data available
Partition coefficient: n-octanol/water	:	log Pow: -1,07 (20,5 °C) Method: OECD Test Guideline 107
Dispersion Stability	:	No data available
Vapour pressure	:	0,2 hPa (20 °C) Method: EU Method A.4
Relative density	:	1,03 (20 °C) Method: EU Method A.3
Density	:	1,03 g/cm ³ (20 °C)
Bulk density	:	No data available
Relative vapour density	:	No data available
Particle characteristics	:	No data available

9.2 Other information

Explosives	:	Product is not explosive.
Oxidizing properties	:	not oxidising
Flammability (liquids)	:	Combustible liquid.
Molecular weight	:	76,10 g/mol

SECTION 10: Stability and reactivity**10.1. Reactivity**

Advice : No decomposition if stored and applied as directed.

10.2. Chemical stability

Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Conditions to avoid : > 40 °C
Protect from moisture contamination. Keep away from direct sunlight.

Thermal decomposition : No data available

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10.5. Incompatible materials

Materials to avoid : Zinc, Strong oxidizing agents, Strong acids

10.6. Hazardous decomposition products

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as: Carbon oxides

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Component:	Propane-1,2-diol	CAS-No. 57-55-6
Acute toxicity		
Oral		
LD50	: 22000 mg/kg (Rat, male and female)	
Inhalation		
LC50	: > 317042 mg/l (Rabbit; 2 h; dust/mist)	
Dermal		
LD50	: > 2000 mg/kg (Rabbit)	
Irritation		
Skin		
Result	: No skin irritation (Rabbit) (OECD Test Guideline 404)	
Eyes		
Result	: No eye irritation (Rabbit) (OECD Test Guideline 405)	
Sensitisation		
Result	: Does not cause skin sensitisation. (Maximisation Test; Guinea pig) (OECD Test Guideline 406)	
CMR effects		
CMR Properties		
Carcinogenicity	: Animal testing did not show any carcinogenic effects.	

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Mutagenicity : In vitro tests did not show mutagenic effects
 In vivo tests did not show mutagenic effects
 Teratogenicity : No indication of toxic effects on reproduction were observed in animal tests.
 Reproductive toxicity : Animal testing did not show any effects on fertility.

Specific Target Organ Toxicity

Single exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure

Remarks : In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.

Other toxic properties

Aspiration hazard

No aspiration toxicity classification,

11.2. Information on other hazards

Data for the product

Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

Component: Propane-1,2-diol CAS-No. 57-55-6

Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

SECTION 12: Ecological information

12.1. Toxicity

Component: Propane-1,2-diol CAS-No. 57-55-6

Acute toxicity

Fish

LC50 : 40.613 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) (static

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test; OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

LC50 : 18.340 mg/l (Ceriodaphnia dubia (water flea); 48 h) (static test; OECD Test Guideline 202)

algae

ErC50 : 19000 mg/l (Pseudokirchneriella subcapitata (green algae); 96 h) (static test; End point: Growth rate; OECD Test Guideline 201)

Bacteria

NOEC : > 20000 mg/l (Pseudomonas putida; 18 h)

Chronic toxicity

Aquatic invertebrates

NOEC 13020 mg/l (Ceriodaphnia dubia (water flea); 7 d) (semi-static test; End point: Reproduction)

12.2. Persistence and degradability

Component: Propane-1,2-diol CAS-No. 57-55-6

Persistence and degradability

Persistence

Result : No data available

Biodegradability

Result : 81 % (anaerobic; Exposure Time: 28 d)(OECD Test Guideline 301F)Readily biodegradable.The 10 day time window criterion is fulfilled.

Result : 96 % (Exposure Time: 64 d)(OECD Test Guideline 306)

12.3. Bioaccumulative potential

Component: Propane-1,2-diol CAS-No. 57-55-6

Bioaccumulation

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Result : log Kow -1,07 (20,5 °C) (OECD Test Guideline 107)
 : BCF: 0,09; The product has low potential bioaccumulation.

12.4. Mobility in soil

Component:	Propane-1,2-diol	CAS-No. 57-55-6
Mobility		

Air : The substance is distributed mainly to the compartments water and soil .
 Soil : Highly mobile in soils

12.5. Results of PBT and vPvB assessment

Data for the product		
Results of PBT and vPvB assessment		

Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Component:	Propane-1,2-diol	CAS-No. 57-55-6
Results of PBT and vPvB assessment		

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6. Endocrine disrupting properties

Data for the product		
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Endocrine disrupting potential : No information available about endocrine disruption properties for environment.

Component:	Propane-1,2-diol	CAS-No. 57-55-6
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Endocrine disrupting potential : No information available about endocrine disruption properties for environment.

12.7. Other adverse effects

Component:	Propane-1,2-diol	CAS-No. 57-55-6
Additional ecological information		

Result : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

MON.PROP.GLYC.FEED (FEEDMAT+TRP: GMP+ FSA ASSURED)**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

- Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
- Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Data for the product

EU. REACH, Annex XVII, : ; The substance/mixture does not fall under this legislation.
Marketing and Use
Restrictions (Regulation
1907/2006/EC)

Component: Propane-1,2-diol CAS-No. 57-55-6

EU. Directive : ; The substance/mixture does not fall under this legislation.
2012/18/EU (SEVESO
III) on major accident
hazards involving
dangerous substances,
Annex I

Notification status

Propane-1,2-diol:

Regulatory List	Notification	Notification number
EINECS	YES	200-338-0
DSL	YES	
KECI (KR)	YES	KE-29267
ENCS (JP)	YES	(2)-234
ISHL (JP)	YES	2-(8)-321
JEX (JP)	YES	(2)-234
ISHL (JP)	YES	2-(8)-323
ISHL (JP)	YES	(2)-234
NZIOC	YES	
IECSC	YES	
INSQ	YES	
ONT INV	YES	
TCSI	YES	
PICCS (PH)	YES	
TSCA	YES	
VN INV L	YES	
TH INV	YES	2905.32
TH INV	YES	55-1-04534
PHARM (JP)	YES	
AU AIICL	YES	

15.2. Chemical safety assessment

A Chemical Safety Assessment according to Regulation No. 1907/2006 (Reach) is not required for this substance.

SECTION 16: Other information

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Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number

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REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
STOT	specific target organ toxicity
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VN INVL	Vietnam. National Chemical Inventory
vPvB	very persistent and very bioaccumulative

Further information

Key literature references and sources for data : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification : The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.
The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.