

* **Dipropylene glycol (DPG)**

Date revised: 04.01.2018

1006847

Version: 8 / WORLD

Master No. M-102

Print date: 19.04.18

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

1.1. Product identifier

Trade name

Dipropylene glycol (DPG)

REACH-Registration no. 01-2119456811-38-XXXX

Use of the substance/mixture

Base chemical with not specially defined use

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

Identified Uses

At the moment we have no information available for the identified uses. In the presence of these data will be included in the safety data sheet.

Uses advised against

There are no uses have been identified, advised against.

1.3. Details of the supplier of the safety data sheet

Address

Vivochem B.V.

Darwin 5

7609 RL Almelo

Telephone no. +31 546 577774

Fax no. +31 546 577701

Information provided Dept. Quality

by / telephone

E-mail address kwaliteit@vivochem.nl

1.4. Emergency telephone number

National poisoning information center (NVIC) +31 (0) 30 274 8888

Only for the purpose of informing medical personnel in cases of accidental intoxications.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with EC directives.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Further supplemental information

For professional users only.

The product does not require a hazard warning label in accordance with EC directives/ GefStoffV (German regulations on dangerous substances).

2.3. Other hazards

No special hazards have to be mentioned.

PBT and vPvB

You find the results of PBT and vPvB assessment in section 12.

SECTION 3: Composition/information on ingredients

3.1. Substances

*** Dipropylene glycol (DPG)**

Date revised: 04.01.2018

1006847

Version: 8 / WORLD

Master No. M-102

Print date: 19.04.18

Further ingredients**Dipropylene glycol, isomers**

CAS No.	25265-71-8
EINECS no.	246-770-3
Registration no.	01-2119456811-38-XXXX

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

If the patient is likely to become unconscious, place and transport in stable sideways position. Remove soiled or soaked clothing immediately, do not allow to dry.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse out mouth and give plenty of water to drink. Get medical advice/attention if you feel unwell.

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

No information available.

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

No information available.

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

Carbon dioxide, Dry powder, Water spray jet, Alcohol-resistant foam

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon monoxide (CO); Carbon dioxide (CO₂)

5.3. Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

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

Use personal protective clothing. Do not inhale vapours.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). When picked

* **Dipropylene glycol (DPG)**

Date revised: 04.01.2018

1006847

Version: 8 / WORLD

Master No. M-102

Print date: 19.04.18

up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

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

Observe the usual precautions for handling chemicals. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of aerosols. Do not inhale vapours.

Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Keep separated from food-stuffs and feed-stocks. At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Do not store together with: Oxidising agents

storage category TRGS 510

10

Combustible liquid

Protect from heat and direct sunlight. Keep container tightly closed and dry in a cool, well-ventilated place. Protect from atmospheric moisture and water. Product is hygroscopic.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Derived No/Minimal Effect Levels (DNEL/DMEL)****Dipropylene glycol, isomers**

DNEL

Conditions	Worker	Long term	dermal	Systemic effects
Concentration	84	mg/kg/d		

DNEL

Conditions	Worker	Long term	inhalative	Systemic effects
Concentration	238	mg/m ³		

DNEL

Conditions	General Population	Long term	dermal	Systemic effects
Concentration	51	mg/kg/d		

DNEL

Conditions	General Population	Long term	inhalative	Systemic effects
Concentration	70	mg/m ³		

DNEL

Conditions	General Population	Long term	oral	Systemic effects
Concentration	24	mg/kg/d		

Predicted No Effect Concentration (PNEC)

* **Dipropylene glycol (DPG)**

Date revised: 04.01.2018

1006847

Version: 8 / WORLD

Master No. M-102

Print date: 19.04.18

Dipropylene glycol, isomers

Type of value	PNEC		
Type	Freshwater		
Concentration	0,1		mg/l
Type of value	PNEC		
Type	Saltwater		
Concentration	0,01		mg/l
Type of value	PNEC		
Type	periodic release		
Concentration	1		mg/l
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	1000		mg/l
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	0,238		mg/kg TG
Type of value	PNEC		
Type	Marine sediment		
Concentration	0,0238		mg/kg TG
Type of value	PNEC		
Type	Soil		
Concentration	0,0253		mg/kg TG

8.2. Exposure controls**Respiratory protection in accordance with DIN EN 136 / DIN EN 140 / DIN EN 143 / DIN EN 149**

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Short term: filter apparatus, combination filter A-P2

Hand protection in accordance with DIN EN 374

Appropriate Material	Chloroprene		
Material thickness	>= 0,6	mm	
Breakthrough time	>= 480	min	

Eye protection in accordance with DIN EN 166

Tightly fitting safety glasses

Body protection in accordance with DIN EN 465

Clothing as usual in the chemical industry.

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

Form	liquid
Colour	colourless

Odour odourless

Odour threshold

Remarks No data available

pH value

* **Dipropylene glycol (DPG)**

Date revised: 04.01.2018

1006847

Version: 8 / WORLD

Master No. M-102

Print date: 19.04.18

Remarks Not applicable

Melting point/freezing point

Value < -20 °C

Initial boiling point and boiling range

Value appr. 228 °C

Pressure 1013 hPa

Flash point

Value appr. 128 °C

Evaporation rate

Remarks No data available

Flammability (solid, gas)

Not ignitable

Upper/lower flammability or explosive limits

Remarks No data available

Vapour pressure

Value 0,013 hPa

Temperature 25 °C

Vapour density

Remarks No data available

Relative densityValue 1,023 g/cm³

Temperature 20 °C

Solubility(ies)

Medium Water

Remarks Completely miscible

Partition coefficient: n-octanol/water

log Pow -0,46

Method OECD 107

The possibility of bioaccumulation is slight.

Auto-ignition temperature

Value appr. 332 °C

Decomposition temperature

Remarks No data available

Viscosity**dynamic**

Value 75 mPa.s

Temperature 25 °C

kinematicValue 118 mm²/s

Temperature 20 °C

Explosive properties

Remarks This product is not potentially explosive.

Oxidising properties

evaluation not oxidizing

9.2. Other information

No additional information available.

* **Dipropylene glycol (DPG)**

Date revised: 04.01.2018

1006847

Version: 8 / WORLD

Master No. M-102

Print date: 19.04.18

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

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

10.2. Chemical stability

Under normal conditions of storage and use is the product stable.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

10.5. Incompatible materials

Reactions with strong alkalies. Reactions with acids and strong oxidising agents.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide, Aldehydes, organic acids

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

By appropriate use of the product no health damage is known.

Acute oral toxicity (Components)**Dipropylene glycol, isomers**

Species	rat		
LD50	>	5000	mg/kg

Acute dermal toxicity (Components)**Dipropylene glycol, isomers**

Species	rabbit		
LD50	>	5010	mg/kg

Acute inhalative toxicity (Components)**Dipropylene glycol, isomers**

Species	rat		
LC50	>	2,34	mg/l
Duration of exposure	4	h	

Skin corrosion/irritation

evaluation non-irritant

Serious eye damage/irritation

evaluation non-irritant

Sensitization (Components)**Dipropylene glycol, isomers**

No sensitizing effect known.

Mutagenicity (Components)**Dipropylene glycol, isomers**

No indications of genotoxicity are available.

Carcinogenicity (Components)**Dipropylene glycol, isomers**

Indications of possible carcinogenic effects are not available.

Reproduction toxicity (Components)

* **Dipropylene glycol (DPG)**

Date revised: 04.01.2018

1006847

Version: 8 / WORLD

Master No. M-102

Print date: 19.04.18

Dipropylene glycol, isomers

No indications of reproduction toxicity are available.

Specific Target Organ Toxicity (STOT)**Single exposure**

No data available

Repeated exposure

No data available

Aspiration hazard

No information available.

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

There is no data available on the product apart from the information given in this subsection.

Fish toxicity (Components)**Dipropylene glycol, isomers**Species Fathead minnow (*Pimephales promelas*)

LC50 46500 mg/l

Duration of exposure 96 h

Remarks Static system

Remarks The product has not been tested. The information is derived from products of similar composition.

Species *Oryzias latipes*

LC50 > 1000 mg/l

Duration of exposure 48 h

Remarks Static system

Remarks The product has not been tested. The information is derived from products of similar composition.

Daphnia toxicity (Components)**Dipropylene glycol, isomers**Species *Daphnia magna*

EC50 > 100 mg/l

Duration of exposure 48 h

Remarks Static system

Algae toxicity (Components)**Dipropylene glycol, isomers**Species *Desmodesmus subspicatus*

EC50 > 100 mg/l

Duration of exposure 72 h

Remarks Static system

Remarks Inhibition of the growth rate

12.2. Persistence and degradability**Biodegradability (Components)****Dipropylene glycol, isomers**

Value > 70 %

evaluation Readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential**Partition coefficient: n-octanol/water**

log Pow -0,46

Method OECD 107

* **Dipropylene glycol (DPG)**

Date revised: 04.01.2018

1006847

Version: 8 / WORLD

Master No. M-102

Print date: 19.04.18

The possibility of bioaccumulation is slight.

Bioconcentration factor (BCF)

BCF 0,3 to 4,6

12.4. Mobility in soil

Highly mobile in soils

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential**

The Substance do not meets PBT-criterions. The Substance do not meets vPvB-criterions.

12.6. Other adverse effects**Behaviour in environment compartments**

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information**Land transport ADR/RID**

Non-dangerous goods

14.1. UN number -

14.2. UN proper shipping name -

14.3. Transport hazard class(es) -

14.4. Packing group -

14.5. Environmental hazards -

14.6. Special precautions for user No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code No information available.

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

14.1. UN number -

14.2. UN proper shipping name -

14.3. Transport hazard class(es) -

14.4. Packing group -

14.5. Environmental hazards -

14.6. Special precautions for user No information available.

14.7. Transport in bulk according to Annex II of No information available.

*** Dipropylene glycol (DPG)**

Date revised: 04.01.2018

1006847

Version: 8 / WORLD

Master No. M-102

Print date: 19.04.18

Marpol and the IBC Code

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

- | | |
|--|---------------------------|
| 14.1. UN number | - |
| 14.2. UN proper shipping name | - |
| 14.3. Transport hazard class(es) | - |
| 14.4. Packing group | - |
| 14.5. Environmental hazards | - |
| 14.6. Special precautions for user | No information available. |
| 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code | No information available. |

SECTION 15: Regulatory information *****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****SVHC**

The product does not contain substances of very high concern (SVHC).

TA-Luft

Section 5.2.5: Organic Substances

General non-supported applications ***

Generation of artificial smoke/theatrical fogs/artificial snow

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information**Department issuing safety data sheet**

Department product safety

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.