

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 12/01/2011 Revision date: 03/10/2017

Supersedes 08/08/2011

P0813

Version: 2.0

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

1.1. Product identifier

Product form : Substance

Trade name : Polyethylene glycol 400

EC-No. : 500-038-2 CAS-No. : 25322-68-3 Product code : P0813

Formula : (C2H4O) · n.H2O

Synonyms : PEG 400 / Macrogol 400

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

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only. Duchefa Biochemie B.V. products are intended

only for "in vitro laboratory" research purposes.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Duchefa Biochemie B.V.
A. Hofmanweg 71
2031 BH Haarlem - The Netherlands
T +31(0)23-5319093 - F +31(0)23-5318027
info@duchefa.nl

1.4. Emergency telephone number

Emergency number : Supplier contact information:

+31(0)23-5319093 (M-F 09:00-17:00) +31(0)6-30109355 (outside office hours)

Organisation/Company	Address	Comment
World Health Organization world	http://apps.who.int/poisoncentres/	Consult website for a local poison centre
directory of poison centres		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Comments : Average molecular mass: 380 - 420 g/mol

Name : Polyethylene glycol 400

CAS-No. : 25322-68-3 EC-No. : 500-038-2

Name	Product identifier	%
Polyethylene glycol 10000 (Polydiol)	(CAS-No.) 25322-68-3 (EC-No.) 500-038-2	>= 99

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Assure fresh air breathing. First-aid measures after skin contact : Flush with plenty of water.

First-aid measures after eye contact : Rinse immediately with plenty of water.

First-aid measures after ingestion : Give water to drink. Seek medical attention if ill effect develops.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical powder. Carbon dioxide (CO2). Water spray.

Unsuitable extinguishing media : Alcohol foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in : When heated to decomposition, emits toxic fumes. COx.

case of fire

5.3. Advice for firefighters

Firefighting instructions : Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting : Wear proper protective equipment.

03/10/2017 Duchefa Biochemie B.V. EN (English) SDS Ref.: P0813 2/7

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear suitable protective clothing.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Dilute residue with water. Dispose in a safe manner in accordance with

local/national regulations. Dike for recovery or absorb with appropriate

material.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No additional information available

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, well-ventilated area. Store at room temperature. Light and

moisturer sensitive.

7.3. Specific end use(s)

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Polyethylene glycol 40	0 (25322-68-3)	
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	1000 mg/m³

8.2. Exposure controls

Hand protection:

Туре	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11	EN 374

Eye protection:

Safety glasses

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Safety Data Sheet

according to Regulation (EU) 2015/830

Appearance : Viscous liquid.
Colour : Colourless.
Odour : Negligible.

Odour threshold : No data available pH : 5 - 7 (100 g/l) Relative evaporation rate : No data available

(butylacetate=1)

Melting point : 4 - 6 °C

Freezing point : No data available

Boiling point : $> 200 \,^{\circ}\text{C}$ Flash point : $240 \,^{\circ}\text{C}$

Auto-ignition temperature : > 360 (DIN 51794)

Decomposition temperature : > 200 °C

Flammability (solid, gas)

Vapour pressure

Relative vapour density at 20 °C

Relative density

No data available

No data available

No data available

Density : 1,12 g/ml

Solubility : Miscible with water.

Log Pow : No data available
Viscosity, kinematic : 94 - 116 mm²/s
Viscosity, dynamic : 105 - 130 mPa.s
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Heat.

10.5. Incompatible materials

Alkali. Oxidizing agents and acids.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. COx.

SDS Ref.: P0813

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Polyethylene glycol 400 (25322-68-3)	
LD50 oral rat	> 15000 mg/kg

Skin corrosion/irritation : Not classified

pH: 5 - 7 (100 g/l)

Serious eye damage/irritation : Not classified

pH: 5 - 7 (100 g/l)

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Polyethylene glycol 400 (25322-68-3)		
Viscosity, kinematic	94 - 116 mm²/s	

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

Polyethylene glycol 400 (25322-68-3)	
Persistence and degradability	Minimally biodegradable.
Biodegradation	> 80 % (28d, OECD 301 E)

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

Avoid release to the environment.

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG

ADR	IMDG	IATA		
14.1. UN number	14.1. UN number			
Not applicable	Not applicable	Not applicable		
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable		
14.4. Packing group				
Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable		
No supplementary information available				

14.6. Special precautions for user

. Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Polyethylene glycol 400 is not on the REACH Candidate List

Polyethylene glycol 400 is not on the REACH Annex XIV List

15.1.2. National regulations

Ensure all national/local regulations are observed.

Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according

to VwVwS, Annex 1 or 2; ID No. 279)

12th Ordinance Implementing the Federal Immission Control Act -

12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

Safety Data Sheet

according to Regulation (EU) 2015/830

SZW-lijst van kankerverwekkende

stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -

Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -

Ontwikkeling

: The substance is not listed

Chemical safety assessment 15.2.

No additional information available

SECTION 16: Other information

Indication of changes:

1.4	Emergency number	Modified	
8.2	Hand protection	Modified	Specified material, thickness, et
			cetera of gloves

Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources

: Supplier. 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.

SDS Biochemicals version 2017

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product