

# SAFETY DATA SHEET

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

#### 1.1. Product identifier

#### **Trade name**

Mr Perfect

# Product no.

51

# **Unique formula identifier (UFI)**

EDC0-VNCQ-V00P-YCQD

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

# Relevant identified uses of the substance or mixture

Stain remover

# **Uses advised against**

No special

# 1.3. Details of the supplier of the safety data sheet

# **Company and address**

# **Blue & Green AB**

Stenorsvägen 52

261 44 Landskrona

Sweden

+46 418 399000

www.blueandgreen.se

#### E-mai

info@blueandgreen.se

#### **Revision**

28/06/2022

# **SDS Version**

1.0

# 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

#### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Eye Irrit. 2; H319, Causes serious eye irritation.

# 2.2. Label elements

# **Hazard pictogram(s)**



# Signal word

Warning

# **Hazard statement(s)**

Causes serious eye irritation. (H319)

#### **Safety statement(s)**

# General

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

#### Prevention

Wear eye protection/protective gloves. (P280)

Wash hands thoroughly after handling. (P264)

#### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

If eye irritation persists: Get medical advice/attention. (P337+P313)

#### Storage

# Disposal

# **Hazardous substances**

No special

#### 2.3. Other hazards

# **Additional labelling**

Not applicable

# **Additional warnings**

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
2-(2-butoxyethoxy)ethanol	CAS No.: 112-34-5 EC No.: 203-961-6 UK-REACH: Index No.: 603-096-00-8	5-10%	Eye Irrit. 2, H319	[1], [3]
(2- methoxymethylethoxy)propanol	CAS No.: 34590-94-8 EC No.: 252-104-2 UK-REACH: Index No.:	5-10%		[1]
1-Heptanol, 2-propyl- , 8EO	CAS No.: 160875-66-1 EC No.: UK-REACH: Index No.:	1-3%	Acute Tox. 4, H302 Eye Dam. 1, H318	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

# Other information

- [1] European occupational exposure limit
- [3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

# Labelling of contents according to Detergents Regulation (EC) No 648/2004

< 5%

· Non-ionic surfactants

## **SECTION 4: First aid measures**

# 4.1. Description of first aid measures **General information**

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In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### **Inhalation**

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### **Skin contact**

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

## **Eye contact**

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

## **Ingestion**

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

#### **Burns**

Not applicable

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

This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

#### **Information to medics**

Bring this safety data sheet or the label from this product.

#### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

# 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO2).

# 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

#### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements

# **6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc.

# 6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

# 6.4. Reference to other sections



See section 13 on "Disposal considerations" in regard of handling of waste. See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

# 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### **Recommended storage material**

Always store in containers of the same material as the original container.

# **Storage temperature**

Room temperature 18 to 23°C

# **Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

2-(2-butoxyethoxy)ethanol

Long term exposure limit (8 hours) (ppm): 10

Long term exposure limit (8 hours) (mg/m³): 67,5

Short term exposure limit (15 minutes) (ppm): 15

Short term exposure limit (15 minutes) (mg/m³): 101,2

(2-methoxymethylethoxy)propanol

Long term exposure limit (8 hours) (ppm): 50

Long term exposure limit (8 hours) (mg/m³): 308

Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).

#### **DNEL**

# (2-methoxymethylethoxy)propanol

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	121 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	283 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	37.2 mg/m³
Long term – Systemic effects - Workers	Inhalation	308 mg/kg
Long term – Systemic effects - General	Oral	36 mg/kg bw/day

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population		
2-(2-butoxyethoxy)ethand	ol	
Duration	Route of exposure	DNEL
Long term – Local effects - Workers	Inhalation	67.5 mg/m³
Short term – Local effects - Workers	Inhalation	101.2 mg/m³
Long term – Systemic effects - General population	Oral	6,25 mg/kg bw/day
(2-methoxymethylethoxy	)propanol	
Route of exposure	Duration of Exposure	PNEC
Freshwater		19 mg/L
Freshwater sediment		70.2 mg/kg
Intermittent release		190 mg/L
Marine water		1.9 mg/L
Marine water sediment		7.02 mg/kg
Sewage treatment plant		4168 mg/L
Soil		2.74 mg/kg
2-(2-butoxyethoxy)ethand	ol	
Route of exposure	Duration of Exposure	PNEC
Freshwater		1.1 mg/L
Freshwater sediment		4.4 mg/kg dw
Intermittent release		11 mg/L
Marine water		0.11 mg/L
Marine water sediment		0.44 mg/kg dw
Soil		0.32 mg/kg dw

# 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

# **General recommendations**

Smoking, drinking and consumption of food is not allowed in the work area.

# **Exposure scenarios**

There are no exposure scenarios implemented for this product.

# **Exposure limits**

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

# **Appropriate technical measures**

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of

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a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

### **Hygiene measures**

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

# Measures to avoid environmental exposure

No specific requirements

# Individual protection measures, such as personal protective equipment

# Generally

Use only UKCA marked protective equipment.

# **Respiratory Equipment**

No specific requirements

# **Skin protection**

No specific requirements

# **Hand protection**

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	-	> 480	EN374-2, EN374-3, EN388	

# **Eye protection**

Type	Standards
Safety glasses with side shields.	EN166



# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

## **Physical state**

Liquid

## Colour

Clear

#### **Odour / Odour threshold**

Characteristic

# pН

Testing not relevant or not possible due to nature of the product.

# Density (g/cm³)

0.9

## **Kinematic viscosity**

Testing not relevant or not possible due to nature of the product.

# **Particle characteristics**

Does not apply to liquids.

#### **Phase changes**

# Melting point/Freezing point (°C)

Testing not relevant or not possible due to nature of the product.

# Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

## **Boiling point (°C)**

Testing not relevant or not possible due to nature of the product.

## **Vapour pressure**



Testing not relevant or not possible due to nature of the product.

# **Relative vapour density**

Testing not relevant or not possible due to nature of the product.

# **Decomposition temperature (°C)**

Testing not relevant or not possible due to nature of the product.

# Data on fire and explosion hazards

#### Flash point (°C)

>90

# Ignition (°C)

Testing not relevant or not possible due to nature of the product.

#### Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

# Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to nature of the product.

## **Solubility**

# **Solubility in water**

Practically insoluble

#### n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

## Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

## 9.2. Other information

# Other physical and chemical parameters

No data available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No data available

# 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

# 10.3. Possibility of hazardous reactions

No special

# 10.4. Conditions to avoid

No special

# 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## **SECTION 11: Toxicological information**

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

Product/substance

2-(2-butoxyethoxy)ethanol

Test method

Species Rat

Route of exposure Oral

Test LD50

Result >2000 mg/kg

Other information

Product/substance

2-(2-butoxyethoxy)ethanol

Test method



Species Rabbit
Route of exposure Dermal
Test LD50
Result 2764 mg/kg

Other information

Product/substance

Test method

2-(2-butoxyethoxy)ethanol

Species

Route of exposure Inhalation
Test LC50
Result >29 ppm

Rat

Other information

Product/substance

2-(2-butoxyethoxy)ethanol

Test method

Species Mouse
Route of exposure Oral
Test LD50
Result 2410 mg/kg

Other information

Product/substance

(2-methoxymethylethoxy)propanol

Test method

Species Rat
Route of exposure Oral
Test LD50
Result >5000 mg/kg

Other information

Product/substance (2-methoxymethylethoxy)propanol

Test method

Species Rabbit
Route of exposure Dermal
Test LD50
Result 9510 mg/kg

Other information

Product/substance (2-methoxymethylethoxy)propanol

Test method

Species Rat
Route of exposure Inhalation
Test LC50
Result 3.35 mg/L

Other information

Product/substance 1-Heptanol, 2-propyl-, 8EO

Test method

Species Rat
Route of exposure Oral
Test LD50

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According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result >300-2000 mg/kg

Other information

#### Skin corrosion/irritation

Product/substance 2-(2-butoxyethoxy)ethanol

Test method OECD 404 Species Rabbit

Duration

Result No adverse effect observed (Not irritating)

Other information

## Serious eye damage/irritation

Product/substance 2-(2-butoxyethoxy)ethanol

Test method OECD 404 Species Rabbit

Duration

Result Adverse effect observed (Irritating)

Other information

Causes serious eye irritation.

# **Respiratory sensitisation**

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

## **Skin sensitisation**

Product/substance 2-(2-butoxyethoxy)ethanol

Test method OECD 406 Species Guinea pig

Result No adverse effect observed (not sensitising)

Other information

#### **Germ cell mutagenicity**

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

# Carcinogenicity

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

#### **Reproductive toxicity**

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

#### STOT-single exposure

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

# **STOT-repeated exposure**

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

## **Aspiration hazard**

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

# 11.2. Information on other hazards

# Long term effects

This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

# **Endocrine disrupting properties**

No special

#### Other information

No special

# **SECTION 12: Ecological information**



12.1. Toxicity

Product/substance

2-(2-butoxyethoxy)ethanol

Test method

Species

Fish, Leuciscus idus

Compartment

Duration 96 hours
Test LC50
Result >100 mg/L

Other information

Product/substance

2-(2-butoxyethoxy)ethanol

Test method

Species

Algae, Scenedesmus subspicatus

Compartment

Duration 96 hours
Test EC50
Result >100 mg/L

Other information

Product/substance

2-(2-butoxyethoxy)ethanol

Test method

Species

Daphnia, Daphnia magna

Compartment

Duration 48 hours
Test EC50
Result >100 mg/L

Other information

Product/substance

(2-methoxymethylethoxy)propanol

Test method

Species Fish, Poecilia reticulata

Compartment

Duration 96 hours
Test LC50
Result >1000 mg/L

Other information

Product/substance

(2-methoxymethylethoxy)propanol

Test method

Species Daphnia, Daphnia magna

Compartment

Duration 48 hours
Test EC50
Result 1919 mg/L

Other information

Product/substance (2-methoxymethylethoxy)propanol

Test method

Species Daphnia, Daphnia magna

Compartment

Duration 22 d

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Test NOEC Result 0.5 mg/L

Other information

Product/substance

(2-methoxymethylethoxy)propanol

Test method

Species Algae, Pseudokirchneriella subcapitata

Compartment

Duration 72 hours
Test EC50
Result >969 mg/L

Other information

Product/substance

1-Heptanol, 2-propyl-, 8EO

Test method

Species Fish, Oncorhynchus mykiss

Compartment

Duration 96 hours
Test LC50
Result 10-100 mg/L

Other information

Product/substance

1-Heptanol, 2-propyl-, 8EO

Test method

Species

Daphnia, Daphnia magna

Compartment

Duration 48 hours
Test EC50
Result 10-100 mg/L

Other information

Product/substance

1-Heptanol, 2-propyl-, 8EO

Test method

Species Algae, Scenedesmus subspicatus

Compartment

Duration 72 hours
Test EC50
Result 10-100 mg/L

Other information

12.2. Persistence and degradability

Product/substance 2-(2-butoxyethoxy)ethanol

Biodegradable Yes
Test method OECD 301 E
Result 100%

Product/substance (2-methoxymethylethoxy)propanol

Biodegradable Yes
Test method OECD 301 F
Result 75%

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Product/substance 1-Heptanol, 2-propyl-, 8EO

Biodegradable Yes

Test method OECD 301 D

Result

# 12.3. Bioaccumulative potential

Product/substance 2-(2-butoxyethoxy)ethanol

Test method

Potential No

bioaccumulation

LogPow 1.0000

BCF No data available

Other information

Product/substance

(2-methoxymethylethoxy)propanol

Test method

Potential No

bioaccumulation

LogPow 0.0060

BCF No data available

Other information

Product/substance

1-Heptanol, 2-propyl-, 8EO

Test method

Potential No

bioaccumulation

LogPow No data available BCF No data available

Other information

# 12.4. Mobility in soil

(2-methoxymethylethoxy)propanol

LogKoc = 0.28, High mobility potential.

## 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

# 12.6. Endocrine disrupting properties

No special

# 12.7. Other adverse effects

No special

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

# **EWC** code

07 06 04\* Other organic solvents, washing liquids and mother liquors

# **Specific labelling**

Not applicable

**Contaminated packing** 

# Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

<sup>\*</sup> Packing group

#### **Additional information**

Not dangerous goods according to ADR, IATA and IMDG.

# 14.6. Special precautions for user

Not applicable

# 14.7. Maritime transport in bulk according to IMO instruments

No data available

#### **SECTION 15: Regulatory information**

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

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

#### **Demands for specific education**

No specific requirements

# **SEVESO - Categories / dangerous substances**

Not applicable

# **REACH, Annex XVII**

2-(2-butoxyethoxy)ethanol is subject to restrictions, UK-REACH annex XVII (entry 55).

#### **Additional information**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents as retained and amended in UK law. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

## **Sources**

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Regulation (EC) No 648/2004 on detergents as retained and amended in UK law.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

# 15.2. Chemical safety assessment

No

# **SECTION 16: Other information**

## Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

## **Abbreviations and acronyms**

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

<sup>\*\*</sup> Environmental hazards



ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the

Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

**UN = United Nations** 

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

#### **Additional information**

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

### The safety data sheet is validated by

Åsa Möller

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en