

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Mr Perfect DK

**Product no.**

-

**REACH registration number**

Not applicable

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

**Relevant identified uses of the substance or mixture**

Cleaning liquid

**Uses advised against**

-

The full text of any mentioned and identified use categories are given in section 16

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

**Company and address**

Blue & Green AB

Stenorsvägen 52

261 44 Landskrona

Sweden

Tfn: +46 418 399000

Fax: +46 418 13199

www.blueandgreen.se

**E-mail**

info@blueandgreen.se

**SDS date**

2020-11-30

**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

Not classified according to Regulation (EC) No. 1272/2008 (CLP)

### 2.2. Label elements

**Hazard pictogram(s)**

Not applicable

**Signal word**

-

**Hazard statement(s)**

Not applicable

**Precautionary statements**

General -

Prevention -

Response -

Storage -

Disposal -

**Identity of the substances primarily responsible for the major health hazards**

Not applicable

**Additional labelling**

According to EC-Regulation 2015/830

Safety data sheet available on request. (EUH210)

**Unique formula identifier (UFI)**

EDC0-VNCQ-V00P-YCQD

**2.3. Other hazards**

Not applicable

**Additional warnings**

Not applicable

**VOC (volatile organic compound)**

Not applicable

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

**3.1/3.2. Substances/Mixtures**

NAME: 1-(1-methyl-2-propoxyethoxy)propan-2-ol  
 IDENTIFICATION NOS.: CAS-no: 29911-27-1 EC-no: 249-949-4 REACH-no: 01-2119908226-42  
 CONTENT: 60-80%  
 CLP CLASSIFICATION: NA

NAME: 2-(2-butoxyethoxy)ethanol  
 IDENTIFICATION NOS.: CAS-no: 112-34-5 EC-no: 203-961-6 REACH-no: 01-2119475104-44 Index-no: 603-096-00-8  
 CONTENT: 5 - <10%  
 CLP CLASSIFICATION: Eye Irrit. 2  
 H319  
 NOTE: L

NAME: (2-methoxymethylethoxy)propanol  
 IDENTIFICATION NOS.: CAS-no: 34590-94-8 EC-no: 252-104-2 REACH-no: 01-2119450011-60  
 CONTENT: 5 - <10%  
 CLP CLASSIFICATION:  
 NOTE: O L

NAME: 2-ethylhexyl laurate  
 IDENTIFICATION NOS.: CAS-no: 20292-08-4 EC-no: 243-697-9 REACH-no: 01-2119970548-24  
 CONTENT: 1 - <2.5%  
 CLP CLASSIFICATION: NA

(\*) O = Organic solvent L = European occupational exposure limit. See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

**Other information**

ATEmix(oral) > 2000  
 Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0.64 - 0.96

Detergent:  
 < 5%: NON-IONIC SURFACTANTS

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service: Dial 0344 892 0111 (24 h service). 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**

Bring the person into fresh air and stay with him/her.

**Skin contact**

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water.

**Eye contact**

Flush eyes with plenty of water (20-30°C) and continue until irritation stops.

**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-

According to EC-Regulation 2015/830

choking on vomited material.

**Burns**

Not applicable

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

Nothing special

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

Nothing special

**Information to medic**

Bring this safety data sheet.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist.

**5.2. Special hazards arising from the substance or mixture**

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. 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.

**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**

No specific requirements.

**6.3. Methods and material for containment and cleaning up**

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

**6.4. Reference to other sections**

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

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

See section on 'Exposure controls/personal protection' for information on personal protection.

**7.2. Conditions for safe storage, including any incompatibilities**

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

**Storage temperature**

Room temperature 18 to 23°C

**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**

**OEL**

(2-methoxymethylethoxy)propanol

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 308 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | - mg/m<sup>3</sup>

Comments: Sk (Sk = Can be absorbed through skin. )

2-(2-butoxyethoxy)ethanol

Long-term exposure limit (8-hour TWA reference period): 10 ppm | 67,5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 15 ppm | 101.2 mg/m<sup>3</sup>

**DNEL / PNEC**

DNEL (2-(2-butoxyethoxy)ethanol): 83 mg/kg

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol): 67.5 mg/m<sup>3</sup>

Exposure: Inhalation

According to EC-Regulation 2015/830

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol): 67.5 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Local effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol): 5 mg/kg bw/d  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 50 mg/kg bw/d  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 40.5 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Local effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 101.2 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Local effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol): 40.5 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 60.7 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Local effects - General population

DNEL ((2-methoxymethylethoxy)propanol): 283 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL ((2-methoxymethylethoxy)propanol): 308 mg/kg  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL ((2-methoxymethylethoxy)propanol): 121 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population

DNEL ((2-methoxymethylethoxy)propanol): 37.2 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population

DNEL ((2-methoxymethylethoxy)propanol): 36 mg/kg bw/day  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-(1-methyl-2-propoxyethoxy)propan-2-ol): 60mg/kg  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (1-(1-methyl-2-propoxyethoxy)propan-2-ol): 84mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (1-(1-methyl-2-propoxyethoxy)propan-2-ol): 30mg/kg  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-(1-methyl-2-propoxyethoxy)propan-2-ol): 21mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-(1-methyl-2-propoxyethoxy)propan-2-ol): 6mg/kg  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population

PNEC (2-(2-butoxyethoxy)ethanol): 200 mg/l  
Exposure: Sewage Treatment Plant

According to EC-Regulation 2015/830

PNEC (2-(2-butoxyethoxy)ethanol): 0.44 mg/kg dw  
Exposure: Marine water sediment

PNEC (2-(2-butoxyethoxy)ethanol): 4.4 mg/kg dw  
Exposure: Freshwater sediment

PNEC (2-(2-butoxyethoxy)ethanol): 1 mg/l  
Exposure: Freshwater

PNEC (2-(2-butoxyethoxy)ethanol): 0.1 mg/l  
Exposure: Marine water

PNEC (2-(2-butoxyethoxy)ethanol): 3.9 mg/l  
Exposure: Intermittent release

PNEC (2-(2-butoxyethoxy)ethanol): 0.32 mg/kg dw  
Exposure: Soil

PNEC ((2-methoxymethylethoxy)propanol): 19 mg/l  
Exposure: Freshwater

PNEC ((2-methoxymethylethoxy)propanol): 1.9 mg/l  
Exposure: Marine water

PNEC ((2-methoxymethylethoxy)propanol): 190 mg/l  
Exposure: Intermittent release

PNEC ((2-methoxymethylethoxy)propanol): 70.2 mg/kg/dwt  
Exposure: Freshwater sediment

PNEC ((2-methoxymethylethoxy)propanol): 7.02 mg/kg/dwt  
Exposure: Marine water sediment

PNEC ((2-methoxymethylethoxy)propanol): 2.74 mg/kg  
Exposure: Soil

PNEC ((2-methoxymethylethoxy)propanol): 4168 mg/l  
Exposure: Sewage Treatment Plant

## 8.2. Exposure controls

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

### General recommendations

Smoking, eating and drinking are not allowed in the work premises

### Exposure scenarios

There is no appendix to this safety data sheet.

### Exposure limits

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

### Appropriate technical measures

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 CE marked protective equipment.

#### Respiratory Equipment

NA

#### Skin protection

According to EC-Regulation 2015/830

No special when used as intended.

**Hand protection**

Nitrile rubber

Breakthrough time: > 480 minutes (Class 6)

**Eye protection**

Wear face shield alternatively safety glasses with side shields.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Form	Liquid
Colour	Clear
Odour	Characteristic
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	0.95

**Phase changes**

Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

**Data on fire and explosion hazards**

Flash point (°C)	90
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.

**Solubility**

Solubility in water	Soluble
n-octanol/water coefficient	No data available.

**9.2. Other information**

Solubility in fat (g/L)	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 the section "Handling and storage".

**10.3. Possibility of hazardous reactions**

Nothing special

**10.4. Conditions to avoid**

Nothing 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 toxicological effects**

**Acute toxicity**

Substance: (2-methoxymethylethoxy)propanol  
 Species: Rabbit  
 Test: LD50  
 Route of exposure: Dermal  
 Result: 9510 mg/kg

Substance: (2-methoxymethylethoxy)propanol  
 Species: Rat  
 Test: LD50

According to EC-Regulation 2015/830

Route of exposure: Oral  
Result: 5000 mg/kg

Substance: (2-methoxymethylethoxy)propanol  
Species: Rat  
Test: LC50  
Route of exposure: Inhalation  
Result: 3.35 mg/l 7h ånga

Substance: 2-(2-butoxyethoxy)ethanol  
Species: Rabbit  
Test: LD50  
Route of exposure: Dermal  
Result: 2764 mg/kg

Substance: 2-(2-butoxyethoxy)ethanol  
Species: Mouse  
Test: LD50  
Route of exposure: Oral  
Result: 2410 mg/kg

Substance: 2-(2-butoxyethoxy)ethanol  
Species: Rat  
Test: LD50  
Route of exposure: Oral  
Result: >2000 mg/kg

Substance: 2-(2-butoxyethoxy)ethanol  
Species: Rat  
Test: LC50  
Route of exposure: Inhalation  
Result: >29 ppm 2h

Substance: 1-(1-methyl-2-propoxyethoxy)propan-2-ol  
Species: Rat  
Test: LD50  
Route of exposure: Dermal  
Result: 2000mg/kg

Substance: 1-(1-methyl-2-propoxyethoxy)propan-2-ol  
Species: Rat  
Test: LD50  
Route of exposure: Oral  
Result: 2000mg/kg

**Skin corrosion/irritation**

Data on substance: 2-(2-butoxyethoxy)ethanol  
Test: OECD Guideline 404  
Organism: Rabbit  
Result: not irritating

**Serious eye damage/irritation**

Data on substance: 2-(2-butoxyethoxy)ethanol  
Test: OECD Guideline 404  
Organism: Rabbit  
Result: irritating

**Respiratory or skin sensitisation**

Data on substance: 2-(2-butoxyethoxy)ethanol  
Test: OECD Guideline 406  
Organism: Guinea pig  
Result: Negative

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

No data available.

**Reproductive toxicity**

No data available.

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**Long term effects**

Nothing special

According to EC-Regulation 2015/830

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance: (2-methoxymethylethoxy)propanol  
 Species: Daphnia  
 Test: NOEC  
 Duration: 22d  
 Result: 0.5 mg/l

Substance: (2-methoxymethylethoxy)propanol  
 Species: Daphnia  
 Test: EC50  
 Duration: 48h  
 Result: 1919 mg/l

Substance: (2-methoxymethylethoxy)propanol  
 Species: Fish  
 Test: LC50  
 Duration: 96h  
 Result: >1000 mg/l

Substance: (2-methoxymethylethoxy)propanol  
 Species: Algae  
 Test: EC50  
 Duration: 72h  
 Result: 969 mg/l

Substance: 2-(2-butoxyethoxy)ethanol  
 Species: Daphnia  
 Test: EC50  
 Duration: 48h  
 Result: >100 mg/l

Substance: 2-(2-butoxyethoxy)ethanol  
 Species: Fish  
 Test: LC50  
 Duration: 96h  
 Result: >100 mg/l

Substance: 2-(2-butoxyethoxy)ethanol  
 Species: Algae  
 Test: EC50  
 Duration: 96h  
 Result: >100 mg/l

Substance: 1-(1-methyl-2-propoxyethoxy)propan-2-ol  
 Species: Daphnia  
 Test: EC50  
 Duration: 48h  
 Result: >100mg/l

Substance: 1-(1-methyl-2-propoxyethoxy)propan-2-ol  
 Species: Fish  
 Test: LC50  
 Duration: 96h  
 Result: >100mg/l

Substance: 1-(1-methyl-2-propoxyethoxy)propan-2-ol  
 Species: Algae  
 Test: EC50  
 Duration:  
 Result: >1000mg/l

### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
(2-methoxymethylethoxy)propano...	Yes	DOC Die-Away Test	75%
2-(2-butoxyethoxy)ethanol	Yes	Modified OECD Screening Test	100%
1-(1-methyl-2-propoxyethoxy)pr...	Yes	DOC Die-Away Test	92%

### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
(2-methoxymethylethoxy)propano...	No	0.006	No data available



According to EC-Regulation 2015/830

2-(2-butoxyethoxy)ethanol	No	1	No data available
1-(1-methyl-2-propoxyethoxy)pr...	No	0.88	No data available

#### 12.4. Mobility in soil

(2-methoxymethylethoxy)propano...: Log Koc= 0.28 (High mobility potential).  
 2-(2-butoxyethoxy)ethanol: Log Koc= 0.8703, Calculated from LogPow (High mobility potential).  
 1-(1-methyl-2-propoxyethoxy)pr...: Log Koc= 2.8 (Moderate 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. Other adverse effects

Nothing special

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product is not covered by regulations on dangerous waste.

##### Waste

EWC code

-

##### Specific labelling

Not applicable

##### Contaminated packing

No specific requirements.

### SECTION 14: Transport information

#### 14.1 – 14.4

Not dangerous goods according to ADR, IATA and IMDG.

##### ADR/RID

14.1. UN number -  
 14.2. UN proper shipping name -  
 14.3. Transport hazard class(es) -  
 14.4. Packing group -  
 Notes -  
 Tunnel restriction code -

##### IMDG

UN-no. -  
 Proper Shipping Name -  
 Class -  
 PG\* -  
 EmS -  
 MP\*\* -  
 Hazardous constituent -

##### IATA/ICAO

UN-no. -  
 Proper Shipping Name -  
 Class -  
 PG\* -

#### 14.5. Environmental hazards

-

#### 14.6. Special precautions for user

-

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

No data available

(\*) Packing group

(\*\*) Marine pollutant

### SECTION 15: Regulatory information

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

##### Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

##### Demands for specific education

-

##### Additional information

According to EC-Regulation 2015/830

Not applicable

**Seveso**

-

**Biocidal reg. no.**

Not applicable

**Sources**

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

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 (CLP).

Regulation (EC) 1907/2006 (REACH).

**15.2. Chemical safety assessment**

No

**SECTION 16: Other information**

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

H319 - Causes serious eye irritation.

**The full text of identified uses as mentioned in section 1**

-

**Additional label elements**

Not applicable

**Other**

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.

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.

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

**The safety data sheet is validated by**

David Löwenstein

**Date of last essential change  
(First cipher in SDS version)**

-

**Date of last minor change  
(Last cipher in SDS version)**

-