

# SAFETY DATA SHEET

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

### 1.1. Product identifier

#### Trade name

Multi-Purpose Cleaner Concentrate  
Multi Purpose/Universal Aquo

#### 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

2020-12-08

#### 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 Dam. 1; H318  
See full text of H-phrases in section 2.2.

### 2.2. Label elements

#### Hazard pictogram(s)



#### Signal word

Danger

#### Hazard statement(s)

Causes serious eye damage. (H318)

#### Precautionary statements

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

According to EC-Regulation 2015/830

**Prevention  
Response**

Keep out of reach of children. (P102).  
Wear eye protection. (P280).  
Immediately call a POISON CENTER/doctor. (P310).  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).

**Storage  
Disposal**

-  
-

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

docusate sodium; Benzenesulfonic acid, mono-C10-14-alkyl derivs., sodium salts

**Additional labelling**

Not applicable

**Unique formula identifier (UFI)**

5QQT-E4V6-8C03-C86S

**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: 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: 60-80%  
CLP CLASSIFICATION: Eye Irrit. 2  
H319  
NOTE: L

NAME: ethanol  
IDENTIFICATION NOS.: CAS-no: 64-17-5 EC-no: 200-578-6 REACH-no: 01-2119457610-43 Index-no: 603-002-00-5  
CONTENT: 5 - <10%  
CLP CLASSIFICATION: Flam. Liq. 2, Eye Irrit. 2  
H225, H319  
NOTE: O

NAME: Benzenesulfonic acid, mono-C10-14-alkyl derivs., sodium salts  
IDENTIFICATION NOS.: CAS-no: 85117-50-6 EC-no: 285-600-2  
CONTENT: 2.5 - <5%  
CLP CLASSIFICATION: Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1  
H302, H315, H318

NAME: docusate sodium  
IDENTIFICATION NOS.: CAS-no: 577-11-7 EC-no: 209-406-4 REACH-no: 01-2119491296-29  
CONTENT: 2.5 - <5%  
CLP CLASSIFICATION: Skin Irrit. 2, Eye Dam. 1  
H315, H318

(\*) 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. 1 Sum = Sum(Ci/S(G)CLi) = 1.6 - 2.4  
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0.48 - 0.72

Detergent:  
5 - 15%: ALCOHOL  
< 5%: ANIONIC 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.

According to EC-Regulation 2015/830

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**

Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

**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.

**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: Sulphur oxides. Carbon oxides. Some metal 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**

Avoid direct contact with spilled substances.

**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**

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

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

According to EC-Regulation 2015/830

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**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**

ethanol

Long-term exposure limit (8-hour TWA reference period): 1000 ppm | 1920 mg/m<sup>3</sup>

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

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

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 (ethanol): 950 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (ethanol): 343 mg/kg bw/d

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (ethanol): 950 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - General population

DNEL (ethanol): 87 mg/kg bw/d

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

According to EC-Regulation 2015/830

DNEL (ethanol): 114 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (ethanol): 206 mg/kg bw/d  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (ethanol): 1900 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Local effects - Workers

DNEL (docusate sodium): 200.89 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (docusate sodium): 1416.82 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (docusate sodium): 419.25 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (docusate sodium): 120.54 mg/kg bw/d  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (docusate sodium): 13.39 mg/kg bw/d  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population

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

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 (ethanol): 0.96 mg/l  
Exposure: Freshwater

PNEC (ethanol): 0.79 mg/l  
Exposure: Marine water

PNEC (ethanol): 2.75 mg/l  
Exposure: Intermittent release

PNEC (ethanol): 3.6 mg/kg dw  
Exposure: Freshwater sediment

PNEC (ethanol): 0.63 mg/kg dw  
Exposure: Soil

PNEC (ethanol): 2.9 mg/kg dw  
Exposure: Marine water sediment

PNEC (ethanol): 580 mg/l  
Exposure: Sewage Treatment Plant

According to EC-Regulation 2015/830

PNEC (docusate sodium): 0.18 mg/l  
Exposure: Freshwater

PNEC (docusate sodium): 0.018 mg/l  
Exposure: Marine water

PNEC (docusate sodium): 0.152 mg/l  
Exposure: Intermittent release

PNEC (docusate sodium): 12.2 mg/l  
Exposure: Sewage Treatment Plant

PNEC (docusate sodium): 17.79 mg/kg dw  
Exposure: Freshwater sediment

PNEC (docusate sodium): 1.779 mg/kg dw  
Exposure: Marine water sediment

PNEC (docusate sodium): 1.04 mg/kg dw  
Exposure: Soil

## 8.2. Exposure controls

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

### General recommendations

Observe general occupational hygiene standards.

### 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

Keep containment materials near the workplace. If possible, collect spillage during work.

### Individual protection measures, such as personal protective equipment



#### Generally

Use only CE marked protective equipment.

#### Respiratory Equipment

No specific requirements.

#### Skin protection

No specific requirements.

#### Hand protection

Nitrile rubber  
Breakthrough time: > 480 minutes (Class 6)

#### Eye protection

Wear safety glasses with side shields.

## SECTION 9: Physical and chemical properties

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

Form	Liquid
Colour	Blue
Odour	Characteristic
Odour threshold (ppm)	No data available.
pH	7

According to EC-Regulation 2015/830

Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	No data available.
<b>Phase changes</b>	
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.
<b>Data on fire and explosion hazards</b>	
Flash point (°C)	No data available.
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.
<b>Solubility</b>	
Solubility in water	Soluble
n-octanol/water coefficient	No data available.
<b>9.2. Other information</b>	
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: docusate sodium

Species: Rabbit

Test: LD50

Route of exposure: Dermal

Result: 2525 mg/kg

Substance: docusate sodium

Species: Rat

Test: LD50

Route of exposure: Oral

Result: >3000 mg/kg

Substance: ethanol

Species: Rat

Test: LD50

Route of exposure: Dermal

Result: >2000 mg/kg

Substance: ethanol

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 10470 mg/kg

Substance: ethanol

Species: Rat

According to EC-Regulation 2015/830

Test: LC50  
Route of exposure: Inhalation  
Result: 51 mg/l 4h

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

**Skin corrosion/irritation**

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

**Serious eye damage/irritation**

Causes serious eye damage.

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**

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.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Substance: docusate sodium  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: 1-10 mg/l

Substance: docusate sodium  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 10-100 mg/l



According to EC-Regulation 2015/830

Substance: docusate sodium  
Species: Algae  
Test: EC50  
Duration: 72h  
Result: 10-100 mg/l

Substance: ethanol  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: 12340 mg/l

Substance: ethanol  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 13000 mg/l

Substance: ethanol  
Species: Algae  
Test: EC50  
Duration: 72h  
Result: 275 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

## 12.2. Persistence and degradability

### Substance

docusate sodium  
ethanol  
2-(2-butoxyethoxy)ethanol

### Biodegradability

Yes  
Yes  
Yes

### Test

No data available  
CO2 Evolution Test  
Modified OECD  
Screening Test

### Result

No data available  
97%  
100%

## 12.3. Bioaccumulative potential

### Substance

docusate sodium  
ethanol  
2-(2-butoxyethoxy)ethanol

### Potential bioaccumulation

No  
No  
No

### LogPow

No data available  
-0.3  
1

### BCF

No data available  
0.66  
No data available

## 12.4. Mobility in soil

ethanol: Log Koc= -0.15917, Calculated from LogPow ().

2-(2-butoxyethoxy)ethanol: Log Koc= 0.8703, Calculated from LogPow (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. Other adverse effects

Nothing special

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

#### Waste

EWC code

-

#### Specific labelling

According to EC-Regulation 2015/830

Not applicable

**Contaminated packing**

Contaminated packaging must be disposed of similarly to the product.

**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**

Not applicable

**Seveso**

-

**Biocidal reg. no.**

Not applicable

**Sources**

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**

According to EC-Regulation 2015/830

No

#### **SECTION 16: Other information**

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

H225 - Highly flammable liquid and vapour.

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

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

-

##### **Additional label elements**

Not applicable

##### **Other**

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

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)**

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

-