

# SAFETY DATA SHEET

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

### 1.1. Product identifier

#### Trade name

Shine n Dry Premium

#### Product no.

88

#### Unique formula identifier (UFI)

8A50-VXNG-999K-TFTC

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

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

Drying agent

#### 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-mail

info@blueandgreen.se

#### Revision

19/07/2022

#### 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

Skin Irrit. 2; H315, Causes skin irritation.

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

### 2.2. Label elements

#### Hazard pictogram(s)



#### Signal word

Warning

#### Hazard statement(s)

Causes skin irritation. (H315)

Causes serious eye irritation. (H319)

#### Safety statement(s)

##### General

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

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

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-butoxyethanol	CAS No.: 111-76-2 EC No.: 203-905-0 UK-REACH: Index No.: 603-014-00-0	10-15%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332	[1]
Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	CAS No.: 1335202-95-3 EC No.: 931-216-1 UK-REACH: Index No.:	10-15%	Skin Irrit. 2, H315 Eye Irrit. 2, H319	
propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 UK-REACH: Index No.: 603-117-00-0	5-10%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
2-(2-butoxyethoxy)ethanol	CAS No.: 112-34-5 EC No.: 203-961-6 UK-REACH: Index No.: 603-096-00-8	3-5%	Eye Irrit. 2, H319	[1], [3]
Hydrocarbons, C10-C13, n-	CAS No.: 129813-66-7	3-5%	EUH066	

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

alkanes, isoalkanes, cyclics, < 2% aromatics	EC No.: 929-018-5 UK-REACH: Index No.:	Asp. Tox. 1, H304
Citric acid	CAS No.: 5949-29-1 EC No.: 201-069-1 UK-REACH: Index No.:	1-3% Eye Irrit. 2, H319
----- See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.		
<b>Other information</b> [1] European occupational exposure limit [3] According to UK REACH, Annex XVII, the substance is subject to restrictions.		

## 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. 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

IF ON SKIN: Wash with plenty of water and soap.  
Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap.  
If skin irritation occurs: Get medical advice/attention.

#### 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

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

Not applicable

## 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 / CO<sub>2</sub>).

## 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

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

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

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-butoxyethanol

Long term exposure limit (8 hours) (ppm): 25

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 123

Short term exposure limit (15 minutes) (ppm): 50

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 246

Annotations:

BMVG = Biological Monitoring Guidance Value exists

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

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

—  
propan-2-ol

Long term exposure limit (8 hours) (ppm): 400

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 999

Short term exposure limit (15 minutes) (ppm): 500

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 1250

—  
2-(2-butoxyethoxy)ethanol

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

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 67,5

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

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 101,2

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-(2-butoxyethoxy)ethanol

Duration	Route of exposure	DNEL
Long term – Local effects - Workers	Inhalation	67.5 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	101.2 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	6,25 mg/kg bw/day

2-butoxyethanol

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Inhalation	59 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	98 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	147 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	246 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	426 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	1 091 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	6.3 mg/kg bw/day
Short term – Systemic	Oral	26.7 mg/kg bw/day

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

effects - General population

Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	187.5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	312.5 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	13 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	44 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	7.5 mg/kg bw/day

propan-2-ol

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	319 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	888 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	89 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	500 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	26 mg/kg bw/day

#### PNEC

2-(2-butoxyethoxy)ethanol

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

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

Soil		0.32 mg/kg dw
<b>2-butoxyethanol</b>		
Route of exposure	Duration of Exposure	PNEC
Freshwater		8.8 mg/L
Freshwater sediment		34.6 mg/kg
Intermittent release		26.4 mg/L
Marine water		0.88 mg/L
Marine water sediment		3.46 mg/kg
Sewage treatment plant		463 mg/L
Soil		2.33 mg/kg
<b>Citric acid</b>		
Route of exposure	Duration of Exposure	PNEC
Freshwater		0.44 mg/L
Freshwater sediment		34.6 mg/kg
Marine water		0.044 mg/L
Marine water sediment		3.46 mg/kg
Sewage treatment plant	-	1000 mg/l
Sewage treatment plant		1000 mg/L
Soil		33.1 mg/kg
<b>Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized</b>		
Route of exposure	Duration of Exposure	PNEC
Freshwater		0.002 mg/L
Freshwater sediment		0.58 mg/kg
Marine water		0 mg/L
Marine water sediment		0.058 mg/kg
Sewage treatment plant		2.96 mg/L
Soil		0.115 mg/kg
<b>propan-2-ol</b>		
Route of exposure	Duration of Exposure	PNEC
Freshwater		140.9 mg/L
Freshwater sediment		552 mg/kg
Intermittent release		140.9 mg/L
Marine water		140.9 mg/L

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

Marine water sediment	552 mg/kg
Sewage treatment plant	2251 mg/L
Soil	28 mg/kg

## 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 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

Take off contaminated clothing and wash it before reuse.

### 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

Blue

#### Odour / Odour threshold

Faint



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

#### **pH**

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

#### **Density (g/cm<sup>3</sup>)**

0.96

#### **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)**

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

##### **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**

Completely soluble

##### **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.

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

## SECTION 11: Toxicological information

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

#### Acute toxicity

Product/substance	2-butoxyethanol
Test method	
Species	Guinea pig
Route of exposure	Oral
Test	LD50
Result	1414 mg/kg
Other information	

Product/substance	2-butoxyethanol
Test method	
Species	Guinea pig, female
Route of exposure	Inhalation
Test	LC0
Result	>3.1 mg/L
Other information	

Product/substance	2-butoxyethanol
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	1300 mg/kg
Other information	

Product/substance	2-butoxyethanol
Test method	
Species	Guinea pig
Route of exposure	Dermal
Test	LD0
Result	>2000 mg/kg
Other information	

Product/substance	Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>2000 mg/kg
Other information	

Product/substance	Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kg
Other information	

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

Product/substance	propan-2-ol
Test method	OECD 401
Species	Rat
Route of exposure	Oral
Test	LD50
Result	5840 mg/kg
Other information	

Product/substance	propan-2-ol
Test method	OECD 403
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	>25 mg/L
Other information	

Product/substance	propan-2-ol
Test method	OECD 402
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	13900 mg/kg
Other information	

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	2-(2-butoxyethoxy)ethanol
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	>29 ppm
Other information	

Product/substance	2-(2-butoxyethoxy)ethanol
Test method	

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

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

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>5000 mg/kg
Other information	

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	>3160 mg/kg
Other information	

Product/substance	Citric acid
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	2000 mg/kg
Other information	

Product/substance	Citric acid
Test method	
Species	Mouse
Route of exposure	Oral
Test	LD50
Result	5400 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	

Causes skin irritation.

#### Serious eye damage/irritation

Product/substance	2-(2-butoxyethoxy)ethanol
Test method	OECD 404

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

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

2-butoxyethanol has been classified by IARC as a group 3 carcinogen.  
propan-2-ol has been classified by IARC as a group 3 carcinogen.

## SECTION 12: Ecological information

### 12.1. Toxicity

Product/substance	2-butoxyethanol
Test method	
Species	Algae, <i>Pseudokirchneriella subcapitata</i>
Compartment	
Duration	72 hours
Test	EC50
Result	1840 mg/L
Other information	

Product/substance	2-butoxyethanol
Test method	
Species	Fish, <i>Oncorhynchus mykiss</i>

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

Compartment	
Duration	96 hours
Test	LC50
Result	1474 mg/L
Other information	
Product/substance	2-butoxyethanol
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	48 hours
Test	EC50
Result	1550 mg/L
Other information	
Product/substance	2-butoxyethanol
Test method	
Species	Fish, Danio rerio
Compartment	
Duration	21 days
Test	NOEC
Result	100 mg/L
Other information	
Product/substance	2-butoxyethanol
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	21 days
Test	NOEC
Result	100 mg/L
Other information	
Product/substance	Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	48 hours
Test	EC50
Result	2.23 mg/L
Other information	
Product/substance	Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized
Test method	
Species	Algae, Desmodesmus subspicatus
Compartment	
Duration	72 hours
Test	EC50
Result	1.9 mg/L
Other information	

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

Product/substance	Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized
Test method	
Species	Fish, <i>Oncorhynchus mykiss</i>
Compartment	
Duration	96 hours
Test	LC50
Result	1.91 mg/L
Other information	
Product/substance	propan-2-ol
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	>100 mg/L
Other information	
Product/substance	propan-2-ol
Test method	
Species	Algae
Compartment	
Duration	8 d
Test	LOEC
Result	1000 mg/L
Other information	
Product/substance	propan-2-ol
Test method	
Species	Daphnia, <i>Daphnia magna</i>
Compartment	
Duration	48 hours
Test	LC50
Result	>100 mg/L
Other information	
Product/substance	propan-2-ol
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	>100 mg/L
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol
Test method	
Species	Fish, <i>Leuciscus idus</i>
Compartment	
Duration	96 hours

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

Test	LC50
Result	>100 mg/L
Other information	

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Product/substance	2-(2-butoxyethoxy)ethanol
Test method	
Species	Algae, <i>Scenedesmus subspicatus</i>
Compartment	
Duration	96 hours
Test	EC50
Result	>100 mg/L
Other information	

Product/substance	2-(2-butoxyethoxy)ethanol
Test method	
Species	Daphnia, <i>Daphnia magna</i>
Compartment	
Duration	48 hours
Test	EC50
Result	>100 mg/L
Other information	

Product/substance	Citric acid
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	440 mg/L
Other information	

Product/substance	Citric acid
Test method	
Species	Daphnia
Compartment	
Duration	24 hours
Test	LC50
Result	1535 mg/L
Other information	

## 12.2. Persistence and degradability

Product/substance	2-butoxyethanol
Biodegradable	Yes
Test method	OECD 301 B
Result	90,4%

Product/substance	Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized
Biodegradable	Yes
Test method	OECD 301 B
Result	>60%



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

Product/substance	propan-2-ol
Biodegradable	Yes
Test method	
Result	
Product/substance	2-(2-butoxyethoxy)ethanol
Biodegradable	Yes
Test method	OECD 301 E
Result	100%
Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Biodegradable	Yes
Test method	
Result	
Product/substance	Citric acid
Biodegradable	Yes
Test method	
Result	

### 12.3. Bioaccumulative potential

Product/substance	2-butoxyethanol
Test method	
Potential bioaccumulation	No
LogPow	0.8100
BCF	No data available
Other information	
Product/substance	propan-2-ol
Test method	
Potential bioaccumulation	No
LogPow	0.0500
BCF	No data available
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol
Test method	
Potential bioaccumulation	No
LogPow	1.0000
BCF	No data available
Other information	
Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Test method	
Potential bioaccumulation	No
LogPow	No data available

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

BCF No data available  
Other information

Product/substance Citric acid  
Test method  
Potential No  
bioaccumulation  
LogPow -1.7200  
BCF No data available  
Other information

#### 12.4. Mobility in soil

No data available

#### 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.

To the extent the material has not been subject to regular tests of peroxide formation the waste shall be treated as explosive waste.

HP 4 - Irritant (skin irritation and eye damage)

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	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

#### 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

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

## SECTION 15: Regulatory information

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

#### Restrictions for application

No special

#### 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

Not applicable

#### Sources

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

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

EUH066, Repeated exposure may cause skin dryness or cracking.

H225, Highly flammable liquid and vapour.

H302, Harmful if swallowed.

H304, May be fatal if swallowed and enters airways.

H315, Causes skin irritation.

H319, Causes serious eye irritation.

H332, Harmful if inhaled.

H336, May cause drowsiness or dizziness.

### 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

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

EWG = 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

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

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