

# SAFETY DATA SHEET

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

### 1.1. Product identifier

#### Trade name

Wheel Wash Plus

#### Product no.

245

#### Unique formula identifier (UFI)

VE6M-K9WG-JA9D-9N7F

### 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

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

13/04/2022

#### 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 Corr. 1B; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

### 2.2. Label elements

#### Hazard pictogram(s)



#### Signal word

Danger

#### Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

#### Safety statement(s)

##### General

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

Keep out of reach of children. (P102)

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

#### Prevention

Wear eye protection/protective gloves. (P280)

#### Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .

(P303+P361+P353)

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

Dispose of contents/container to an approved waste disposal plant. (P501)

#### Hazardous substances

1-Heptanol, 2-propyl-, 8EO

2-aminoethanol

sodium hydroxide

potassium hydroxide

#### 2.3. Other hazards

##### Additional labelling

EUH208, Contains Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine. May produce an allergic reaction.

##### 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
1-Heptanol, 2-propyl-, 8EO	CAS No.: 160875-66-1 EC No.: REACH: Index No.:	3-5%	Acute Tox. 4, H302 Eye Dam. 1, H318	
2-aminoethanol	CAS No.: 141-43-5 EC No.: 205-483-3 REACH: Index No.: 603-030-00-8	1-3%	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Chronic 3, H412	[1]
2-(2-butoxyethoxy)ethanol	CAS No.: 112-34-5 EC No.: 203-961-6 REACH: 01-2119475104-44 Index No.: 603-096-00-8	1-3%	Eye Irrit. 2, H319	[1], [3]
sodium hydroxide	CAS No.: 1310-73-2 EC No.: 215-185-5 REACH:	1-3%	Met. Corr. 1, H290 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Corr. 1A, H314 Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318	

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

	Index No.: 011-002-00-6		Eye Irrit. 2, H319 (SCL: 0.50 %)
potassium hydroxide	CAS No.: 1310-58-3 EC No.: 215-181-3 REACH: Index No.: 019-002-00-8	1-3%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Corr. 1A, H314 Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)
Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine	CAS No.: 1471311-93-9 EC No.: 939-488-3 REACH: 01-2119980932-27 Index No.:	<1%	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Dam. 1, H318
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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.			
<b>Labelling of contents according to Detergents Regulation (EC) No 648/2004</b>			
< 5%			
· Cationic surfactants			
· 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. 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

Remove contaminated clothing and shoes immediately. 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 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 during transport.

#### Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

#### Burns

Not applicable

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or

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

aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

This product contains substances that may trigger an allergic reaction to predisposed persons.

#### **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**

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:

Nitrogen oxides (NO<sub>x</sub>)

Carbon oxides (CO / CO<sub>2</sub>).

Some metal oxides.

#### **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**

Avoid direct contact with the product.

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)**

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

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

—  
2-aminoethanol

Long term exposure limit (8 hours) (ppm): 1

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 2,5

Short term exposure limit (15 minutes) (ppm): 3

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 7,6

Annotations:

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

—  
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

—  
sodium hydroxide

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

—  
potassium hydroxide

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

—  
propane-1,2-diol

Long term exposure limit (8 hours) (ppm): 150(total)

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 474(total)/10(particulates)

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

Product/substance	2-aminoethanol
DNEL	1 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers

Product/substance	2-aminoethanol
DNEL	3.3 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers

Product/substance	2-aminoethanol
DNEL	3.3 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers

Product/substance	2-aminoethanol
DNEL	0.24 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population

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Product/substance	2-aminoethanol
DNEL	2 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	2-aminoethanol
DNEL	2 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - General population
Product/substance	2-aminoethanol
DNEL	3.75 mg/kg bw/day
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	2-(2-butoxyethoxy)ethanol
DNEL	67.5 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers
Product/substance	2-(2-butoxyethoxy)ethanol
DNEL	6,25 mg/kg bw/day
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	2-(2-butoxyethoxy)ethanol
DNEL	101.2 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers
Product/substance	sodium hydroxide
DNEL	1 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - General population
Product/substance	sodium hydroxide
DNEL	1 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers
Product/substance	sodium hydroxide
DNEL	2 mg/kg bw/d
Route of exposure	Dermal
Duration	Short term – Local effects - Workers
Product/substance	sodium hydroxide
DNEL	2 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers

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

Product/substance	potassium hydroxide
DNEL	1 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers
Product/substance	potassium hydroxide
DNEL	1mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - General population
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
DNEL	35,21 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
DNEL	10 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
DNEL	8,7 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
DNEL	5 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
DNEL	5 mg/kg
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	propane-1,2-diol
DNEL	168 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	propane-1,2-diol
DNEL	10 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers
Product/substance	propane-1,2-diol
DNEL	50 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population

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

Product/substance	propane-1,2-diol
DNEL	10 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - General population

#### PNEC

Product/substance	2-aminoethanol
PNEC	0.085 mg/L
Route of exposure	Freshwater
Duration of Exposure	

Product/substance	2-aminoethanol
PNEC	0.0085 mg/L
Route of exposure	Marine water
Duration of Exposure	

Product/substance	2-aminoethanol
PNEC	0.434 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	

Product/substance	2-aminoethanol
PNEC	0.0434 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	

Product/substance	2-aminoethanol
PNEC	1.29 mg/kg
Route of exposure	Soil
Duration of Exposure	

Product/substance	2-aminoethanol
PNEC	100 mg/L
Route of exposure	Sewage treatment plant
Duration of Exposure	

Product/substance	2-aminoethanol
PNEC	0.028 mg/L
Route of exposure	Intermittent release
Duration of Exposure	

Product/substance	2-(2-butoxyethoxy)ethanol
PNEC	0.44 mg/kg dw
Route of exposure	Marine water sediment
Duration of Exposure	

Product/substance	2-(2-butoxyethoxy)ethanol
PNEC	4.4 mg/kg dw
Route of exposure	Freshwater sediment



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

Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol
PNEC	1.1 mg/L
Route of exposure	Freshwater
Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol
PNEC	0.11 mg/L
Route of exposure	Marine water
Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol
PNEC	11 mg/L
Route of exposure	Intermittent release
Duration of Exposure	
Product/substance	2-(2-butoxyethoxy)ethanol
PNEC	0.32 mg/kg dw
Route of exposure	Soil
Duration of Exposure	
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
PNEC	0,1 mg/L
Route of exposure	Freshwater
Duration of Exposure	
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
PNEC	0,01 mg/L
Route of exposure	Marine water
Duration of Exposure	
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
PNEC	1 mg/L
Route of exposure	Intermittent release
Duration of Exposure	
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
PNEC	100 mg/L
Route of exposure	Sewage treatment plant
Duration of Exposure	
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
PNEC	4,85 mg/L
Route of exposure	Freshwater sediment
Duration of Exposure	
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
PNEC	0,909 mg/kg
Route of exposure	Soil

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

#### Duration of Exposure

Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
PNEC	0,485 mg/L
Route of exposure	Marine water sediment
Duration of Exposure	

Product/substance	propane-1,2-diol
PNEC	260 mg/L
Route of exposure	Freshwater
Duration of Exposure	

Product/substance	propane-1,2-diol
PNEC	26 mg/L
Route of exposure	Marine water
Duration of Exposure	

Product/substance	propane-1,2-diol
PNEC	20000 mg/L
Route of exposure	Sewage treatment plant
Duration of Exposure	

Product/substance	propane-1,2-diol
PNEC	572 mg/kg dw
Route of exposure	Freshwater sediment
Duration of Exposure	

Product/substance	propane-1,2-diol
PNEC	57.2 mg/kg dw
Route of exposure	Marine water sediment
Duration of Exposure	

Product/substance	propane-1,2-diol
PNEC	50 mg/kg dw
Route of exposure	Soil
Duration of Exposure	

Product/substance	propane-1,2-diol
PNEC	183 mg/l
Route of exposure	Intermittent release
Duration of Exposure	-

## 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.

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

### 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

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 damming 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

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

#### 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

Yellowish

#### Odour / Odour threshold

Characteristic

#### pH

13.5

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

1.05

#### Kinematic viscosity

60 mm<sup>2</sup>/s

#### Particle characteristics

Does not apply to liquids.

#### Phase changes

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

**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**

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.

**SECTION 11: Toxicological information**

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

**Acute toxicity**

Product/substance	1-Heptanol, 2-propyl-, 8EO
Test method	
Species	Rat
Route of exposure	Oral

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

Test	LD50
Result	>300-2000 mg/kg
Other information	
Product/substance	2-aminoethanol
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	1089 mg/kg
Other information	
Product/substance	2-aminoethanol
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	2504 mg/kg
Other information	
Product/substance	2-aminoethanol
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50 (4 hours)
Result	1478 mg/m <sup>3</sup>
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

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

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	sodium hydroxide
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	325 mg/kgbw
Other information	
Product/substance	potassium hydroxide
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	333.0 mg/kg
Other information	
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>2000 mg/kg
Other information	
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kg
Other information	
Product/substance	propane-1,2-diol
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	22000 mg/kg
Other information	
Product/substance	propane-1,2-diol

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

Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kg
Other information	

Product/substance	propane-1,2-diol
Test method	
Species	Rabbit
Route of exposure	Inhalation
Test	LC50 (2 hours)
Result	>317042 mg/m <sup>3</sup>
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 severe skin burns and eye damage.

### 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 damage.

### 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.

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

#### 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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

#### Endocrine disrupting properties

No special

#### Other information

No special

## SECTION 12: Ecological information

### 12.1. Toxicity

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	

Product/substance	2-aminoethanol
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	>100 mg/L
Other information	



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

Product/substance	2-aminoethanol
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	48 hours
Test	EC50
Result	65 mg/L
Other information	
Product/substance	2-aminoethanol
Test method	
Species	Algae, Pseudokirchneriella subcapitata
Compartment	
Duration	72 hours
Test	EC50
Result	2.8 mg/L
Other information	
Product/substance	2-aminoethanol
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	21 days
Test	NOEC
Result	0.85 mg/L
Other information	
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

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

Test	EC50
Result	>100 mg/L
Other information	
Product/substance	sodium hydroxide
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	125 mg/L
Other information	
Product/substance	sodium hydroxide
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	40 mg/L
Other information	
Product/substance	potassium hydroxide
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	80 mg/L
Other information	
Product/substance	potassium hydroxide
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	48 hours
Test	EC50
Result	40-240 mg/L
Other information	
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
Test method	
Species	Fish, Leuciscus idus
Compartment	
Duration	96 hours
Test	LC50
Result	>100 mg/L
Other information	
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
Test method	

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

Species	Daphnia, Daphnia magna
Compartment	
Duration	48 hours
Test	EC50
Result	>100 mg/L
Other information	
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
Test method	
Species	Algae, Pseudokirchneriella subcapitata
Compartment	
Duration	72 hours
Test	EC50
Result	>100 mg/L
Other information	
Product/substance	propane-1,2-diol
Test method	
Species	Fish, Oncorhynchus mykiss
Compartment	
Duration	96 hours
Test	LC50
Result	40613 mg/L
Other information	
Product/substance	propane-1,2-diol
Test method	
Species	Daphnia, Ceriodaphnia dubia
Compartment	
Duration	48 hours
Test	EC50
Result	18340 mg/L
Other information	
Product/substance	propane-1,2-diol
Test method	
Species	Algae, Pseudokirchneriella subcapitata
Compartment	
Duration	96 hours
Test	ErC50
Result	19000 mg/L
Other information	
<b>12.2. Persistence and degradability</b>	
Product/substance	1-Heptanol, 2-propyl-, 8EO
Biodegradable	Yes
Test method	OECD 301 D
Result	
Product/substance	2-aminoethanol

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

Biodegradable	Yes
Test method	
Result	
Product/substance	2-(2-butoxyethoxy)ethanol
Biodegradable	Yes
Test method	OECD 301 E
Result	100%
Product/substance	sodium hydroxide
Biodegradable	Yes
Test method	
Result	
Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
Biodegradable	Yes
Test method	
Result	
Product/substance	propane-1,2-diol
Biodegradable	Yes
Test method	OECD 301 F
Result	81%
<b>12.3. Bioaccumulative potential</b>	
Product/substance	1-Heptanol, 2-propyl-, 8EO
Test method	
Potential bioaccumulation	No
LogPow	No data available
BCF	No data available
Other information	
Product/substance	2-aminoethanol
Test method	
Potential bioaccumulation	No
LogPow	-1.9100
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	sodium hydroxide

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

Test method	
Potential bioaccumulation	No
LogPow	No data available
BCF	No data available
Other information	

Product/substance	potassium hydroxide
Test method	
Potential bioaccumulation	No
LogPow	No data available
BCF	No data available
Other information	

Product/substance	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine
Test method	
Potential bioaccumulation	No
LogPow	No data available
BCF	No data available
Other information	

Product/substance	propane-1,2-diol
Test method	
Potential bioaccumulation	No
LogPow	-1.0700
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.

HP 8 – Corrosive

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

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

#### EWC code

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

#### Specific labelling


Not applicable

#### Contaminated packing

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

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	UN1760	CORROSIVE LIQUID, N.O.S. (sodium hydroxide)	Class: 8 Labels: 8 Classification code: C9 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1760	CORROSIVE LIQUID, N.O.S. (sodium hydroxide)	Class: 8 Labels: 8 Classification code: C9 	II	No	Limited quantities: 1 L EmS: F-A S-B See below for additional information.
IATA	UN1760	CORROSIVE LIQUID, N.O.S. (sodium hydroxide)	Class: 8 Labels: 8 Classification code: C9 	II	No	See below for additional information.

\* Packing group

\*\* Environmental hazards

#### Additional information

IMDG / See the Dangerous Goods List, section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

#### 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

People under the age of 18 shall not be exposed to this product.

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

##### 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. Data to support this assertion are held at the disposal of the

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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.

Tactile warning.

If this product is sold in retail, it must be delivered with child-resistant fastening.

#### Sources

The Management of Health and Safety at Work Regulations 1999

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

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

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

CLP Regulation (EC) No 1272/2008, as retained and amended in UK law.

EC-Regulation 1907/2006 (REACH), as amended by UK REACH Regulations SI 2019/758

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

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

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H312, Harmful in contact with skin.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H332, Harmful if inhaled.

H335, May cause respiratory irritation.

H412, Harmful to aquatic life with long lasting effects.

#### 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

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

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

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

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).

#### **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