

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.
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 Brightener Uses advised against
The full text of any mentioned and identified use categories are given in section 16 <b>1.3. Details of the supplier of the safety data sheet</b>
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
2020-10-15 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
<ul> <li>2.1. Classification of the substance or mixture Skin Irrit. 2; H315 Eye Irrit. 2; H319 See full text of H-phrases in section 2.2.</li> <li>2.2. Label elements</li> </ul>
Hazard pictogram(s)
Signal word Warning Hazard statement(s) Causes skin irritation. (H315) Causes serious eye irritation. (H319)
Precautionary statements



General	If medical advice is needed, have product container or label at hand. (P101).
General	Keep out of reach of children. (P102).
Prevention	Wash hands/exposed skin thoroughly after handling. (P264).
rievendori	Wear eye protection/gloves. (P280).
Response	If eye irritation persists: Get medical advice/attention. (P337+P313).
Response	
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
Other was	lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).
Storage	•
Disposal	-
Identity of the substa	nces primarily responsible for the major health hazards
Not applicable	
Additional labelling	
Not applicable	
Unique formula ident	ifier (UFI)
TA94-NR7W-W00K	
2.3. Other hazards	
Not applicable	
Additional warnings	
Not applicable	
VOC (volatile organic	compound)
Not applicable	, compound)
ION 3: Composition/info	armation on ingradients
3.1/3.2. Substances/Mixt	ures
NAME:	2-butoxyethanol
IDENTIFICATION NOS.:	CAS-no: 111-76-2 EC-no: 203-905-0 REACH-no: 01-2119475108-36 Index-no: 603-014-00-
CONTENT:	15 - <25%
CLP CLASSIFICATION:	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2
NOTE:	H302, H312, H315, H319, H332 O L
NOTE:	0E
NAME:	Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie
IDENTIFICATION NOS .:	CAS-no: 91995-81-2 EC-no: 295-344-3 REACH-no: 01-2119472309-33
CONTENT: CLP CLASSIFICATION:	10 - <15% Skip krit 2 Evo krit 2
CEP CLASSIFICATION.	Skin Irrit. 2, Eye Irrit. 2 H315, H319
NAME:	propan-2-ol
IDENTIFICATION NOS.:	CAS-no: 67-63-0 EC-no: 200-661-7 REACH-no: 01-2119457558-25 Index-no: 603-117-00-0
CONTENT: CLP CLASSIFICATION:	5 - <10% Flam. Liq. 2, STOT SE 3, Eye Irrit. 2
	H225, H319, H336
NOTE:	0
	2 (2 hutowyothowy)othopol
NAME: IDENTIFICATION NOS.:	2-(2-butoxyethoxy)ethanol CAS-no: 112-34-5 EC-no: 203-961-6 REACH-no: 01-2119475104-44 Index-no: 603-096-00-
CONTENT:	5 - <10%
CLP CLASSIFICATION:	Eye Irrit. 2
	H319
NOTE:	L
NAME:	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
IDENTIFICATION NOS.:	CAS-no: 129813-66-7 REACH-no: 01-2119475608-26
DEITHING (THORTHOUSE	5 - <10%
CONTENT:	Asp. Tox. 1
CONTENT:	H304, EUH066
CONTENT:	H304, EUH066
CONTENT: CLP CLASSIFICATION:	
CONTENT: CLP CLASSIFICATION: NAME: IDENTIFICATION NOS.: CONTENT:	H304, EUH066 Citronsyre monohydrat CAS-no: 5949-29-1 EC-no: - REACH-no: 01-2119457026-42 Index-no: 201-069-1 1 - <2.5%
CONTENT: CLP CLASSIFICATION: NAME: IDENTIFICATION NOS.:	H304, EUH066 Citronsyre monohydrat CAS-no: 5949-29-1 EC-no: - REACH-no: 01-2119457026-42 Index-no: 201-069-1

ATEmix(inhale, vapour) > 20 ATEmix(dermal) > 2000 ATEmix(oral) > 2000 Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 3.2 - 4.8 Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 2.208 - 3.312

Detergent:

5 - 15%: CATIONIC SURFACTANTS, ISOPROPYL ALCOHOL, ALIPHATIC HYDROCARBONS

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

#### 4.1. Description of first aid measures

#### **General information**

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service: Dial 0344 892 0111 (24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

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

### Skin contact

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

#### Eye contact

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 the 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.

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

### 5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

### 5.3. Advice for firefighters

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

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

6.1. Personal precautions, protective equipment and emergency procedures

#### No specific requirements. 6.2. Environmental precautions

No specific requirements.

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<ul> <li>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.</li> <li>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.</li> <li>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 workroon See section on 'Exposure controls/personal protection' for information on personal protection.</li> <li>7.2. Conditions for safe storage, including any incompatibilities 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.</li> <li>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</li> <li>SECTION 8: Exposure controls/personal protection         <ul> <li>6.1. Control parameters</li> <li>OEL</li> <li>2-(2-butoxyethoxy)ethanol</li> </ul> </li> </ul>
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OEL
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>
propan-2-ol
Long-term exposure limit (8-hour TWA reference period): 400 ppm   999 mg/m <sup>3</sup>
Short-term exposure limit (15-minute reference period): 500 ppm   1250 mg/m <sup>3</sup>
2-butoxyethanol Long-term exposure limit (8-hour TWA reference period): 25 ppm   123 mg/m³
Short-term exposure limit (15-minute reference period): 50 ppm   - mg/m <sup>3</sup>
Comments: Sk;BMGV (Bmgv = Biological Monitoring Guidance Value. Sk = Can be absorbed through skin. ) DNEL / PNEC
DNEL (2-butoxyethanol): 3.2 mg/kg bw/day
Exposure: Oral Duration of Exposure: Long term – Systemic effects - General population
DNEL (2-butoxyethanol): 49 mg/m3
Exposure: Inhalation Duration of Exposure: Long term – Systemic effects - General population
DNEL (2-butoxyethanol): 38 mg/kg bw/day Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population
DNEL (2-butoxyethanol): 426 mg/m3
Exposure: Inhalation Duration of Exposure: Short term – Systemic effects - General population
DNEL (2-butoxyethanol): 123 mg/m3 Exposure: Inhalation
Duration of Exposure: Short term – Local effects - General population
DNEL (2-butoxyethanol): 98 mg/m3, 20 ppm
Exposure: Inhalation Duration of Exposure: Long term – Systemic effects - Workers
DNEL (2-butoxyethanol): 246 mg/m3, 50 ppm Exposure: Inhalation
Duration of Exposure: Short term – Local effects - Workers
DNEL (2-butoxyethanol): 663 mg/m3, 135 ppm
Exposure: Inhalation
Duration of Exposure: Short term – Systemic effects - Workers
DNEL (2-butoxyethanol): 89 mg/kg bw/day



Exposure: Dermal Duration of Exposure: Short term – Systemic effects - Workers
DNEL (2-butoxyethanol): 13.4 mg/kg bw/day Exposure: Oral
Duration of Exposure: Short term – Systemic effects - General population
DNEL (2-butoxyethanol): 44.5 mg/kg bw/day Exposure: Dermal
Duration of Exposure: Short term – Systemic effects - General population
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/m3 Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers
DNEL (2-(2-butoxyethoxy)ethanol): 67.5 mg/m3 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/m3 Exposure: Inhalation
Duration of Exposure: Long term – Local effects - General population
DNEL (2-(2-butoxyethoxy)ethanol): 101.2 mg/m3 Exposure: Inhalation Duration of Exposure: Short term – Local effects - Workers
DNEL (2-(2-butoxyethoxy)ethanol): 40.5 mg/m3
Exposure: Inhalation Duration of Exposure: Long term – Systemic effects - General population
DNEL (2-(2-butoxyethoxy)ethanol): 60.7 mg/m3 Exposure: Inhalation
Duration of Exposure: Short term – Local effects - General population
DNEL (propan-2-ol): 319 mg/kg bw/d Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population
DNEL (propan-2-ol): 89 mg/m3 Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population
DNEL (propan-2-ol): 26 mg/kg bw/d Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population
DNEL (propan-2-ol): 888 mg/kg bw/d Exposure: Dermal Duration of Exposure: Long term – Systemic effects - Workers
DNEL (propan-2-ol): 500 mg/m3
Exposure: Inhalation Duration of Exposure: Long term – Systemic effects - Workers
DNEL (Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie): 7.5 mg/kg bw/d
Exposure: Oral Duration of Exposure: Long term – Systemic effects - General population
DNEL (Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie): 312.5 mg/kg bw/d



Exposure: Dermal Duration of Exposure: Long term – Systemic effects - Workers
DNEL (Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie): 187.5 mg/kg bw/d Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population
DNEL (Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie): 44 mg/m3 Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers
DNEL (Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie): 13 mg/m3 Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population
PNEC (2-butoxyethanol): 8.8 mg/l Exposure: Freshwater
PNEC (2-butoxyethanol): 0.88 mg/l Exposure: Marine water
PNEC (2-butoxyethanol): 463 mg/l Exposure: Sewage Treatment Plant
PNEC (2-butoxyethanol): 34.6 mg/kg dw Exposure: Freshwater sediment
PNEC (2-butoxyethanol): 3.46 mg/kg dw Exposure: Marine water sediment
PNEC (2-butoxyethanol): 2.8 mg/kg dw Exposure: Soil
PNEC (2-butoxyethanol): 9.1 mg/l Exposure: Intermittent release
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 (propan-2-ol): 552 mg/kg dw Exposure: Marine water sediment
PNEC (propan-2-ol): 140.9 mg/l Exposure: Freshwater
PNEC (propan-2-ol): 28 mg/kg dw Exposure: Soil
PNEC (propan-2-ol): 140.9 mg/l Exposure: Marine water
PNEC (propan-2-ol): 140.9 mg/l Exposure: Intermittent release



cording to EC-Regulation 2015/830	
PNEC (propan-2-ol): 2251 mg/l Exposure: Sewage Treatment Plant	
PNEC (propan-2-ol): 552 mg/kg dw Exposure: Freshwater sediment	
PNEC (Citronsyre monohydrat): 0.44 mg/l Exposure: Freshwater	
PNEC (Citronsyre monohydrat): 0.044 mg/l Exposure: Marine water	
PNEC (Citronsyre monohydrat): 34.6 mg/kg dw Exposure: Freshwater sediment	
PNEC (Citronsyre monohydrat): 3.46 mg/kg dw Exposure: Marine water sediment	
PNEC (Citronsyre monohydrat): 1000 mg/l Exposure: Sewage Treatment Plant	
PNEC (Citronsyre monohydrat): 33.1 mg/kg dw Exposure: Soil	
PNEC (Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie): 0.002 mg/l Exposure: Freshwater	
PNEC (Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie): 0 mg/l Exposure: Marine water	
PNEC (Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie): 0.058 mg/kg Exposure: Marine water sediment	
PNEC (Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie): 0.115 mg/kg Exposure: Soil	
PNEC (Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie): 0.58 mg/kg Exposure: Freshwater sediment	
PNEC (Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie): 2.96 mg/l Exposure: Sewage Treatment Plant 8.2. Exposure controls	
Compliance with the accepted occupational exposure limits values should l General recommendations	be controlled on a regular basis.
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 concentration occupational hygiene limit values above.	s for occupational exposure. See
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 expose washed thoroughly. Always wash hands, forearms and face.	ed areas of the body must be
Measures to avoid environmental exposure No specific requirements.	
Individual protection measures, such as personal protective equipment	
Generally	
Use only CE marked protective equipment. Respiratory Equipment	

Blue & Green Quality chemicals

According to EC-Regulation 2015/830

NA	
Skin protection	
Dedicated work clothing should be worn.	
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 propertie	S
Form	Liquid
Colour	Blue
Odour	Faint
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	0.96
Phase changes	0.00
	No data available.
Melting point (°C)	
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.
Data on fire and explosion hazards	
Flash point (°C)	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.
Solubility	
Solubility in water	Soluble
n-octanol/water coefficient	No data available.
9.2. Other information	
Solubility in fat (g/L)	No data available.
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No data available	
10.2. Chemical stability	
The product is stable under the conditions, noted in the	section "Handling and storage".
10.3. Possibility of hazardous reactions	
Nothing special	
10.4. Conditions to avoid	
Nothing special	
10.5. Incompatible materials	
Strong acids, strong bases, strong oxidizing agents, and	d 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: Citronsyre monohydrat	
Species: Rat	
Test: LD50	
Route of exposure: Dermal	
Result: 2000 mg/kg	

Substance: Citronsyre monohydrat



9.0	
	Species: Mouse
	Test: LD50
	Route of exposure: Oral
	Result: 5400 mg/kg
	Substance: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	Species: Rat
	Test: LD50
	Route of exposure: Oral
	Result: >5000 mg/kg
	Substance: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	Species: Rabbit
	Test: LD50
	Route of exposure: Dermal
	Result: >3160 mg/kg
	Substance: 2-(2-butoxyethoxy)ethanol
	Species: Rat
	Test: LD50
	Route of exposure: Oral
	Result: >2000 mg/kg
	Substance: 2 (2 buterwethersu) ethanol
	Substance: 2-(2-butoxyethoxy)ethanol Species: Rabbit
	Test: LD50
	Route of exposure: Dermal
	Result: 2764 mg/kg
	Noodin. 21 0+ mg/ng
	Substance: 2-(2-butoxyethoxy)ethanol
	Species: Rat
	Test: LC50
	Route of exposure: Inhalation
	Result: >29 ppm 2h
	Substance: 2-(2-butoxyethoxy)ethanol
	Species: Mouse
	Test: LD50
	Route of exposure: Oral
	Result: 2410 mg/kg
	Substance: propan-2-ol
	Species: Rat
	Test: LD50
	Route of exposure: Oral
	Result: 5840 mg/kg
	Substance: proper 2 of
	Substance: propan-2-ol
	Species: Rat
	Test: LC50 Route of exposure: Inholation
	Route of exposure: Inhalation Result: >25 mg/l, 6h ånga
	nesuit. 225 mg/l, oli aliya
	Substance: propan-2-ol
	Substance: propan-z-ol Species: Rabbit
	Test: LD50
	Route of exposure: Dermal
	Result: 13900 mgkg
	Substance: Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie
	Species: Rat
	Test: LD50
	Route of exposure: Oral
	Result: >2000 mg/kg
	Substance: Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie
	Species: Rat
	Test: LD50
	Route of exposure: Dermal
	Result: >2000 mg/kg
	Substance: 2-butoxyethanol
	Species: Guinea pig



According to EC-Regulation 2015/830	
Test: LD50	
Route of exposure: Oral	
Result: 1414 mg/kg	
Substance: 2-butoxyethanol	
Species: Rat	
Test: LC50	
Route of exposure: Inhalation	
Result: 2.56 mg/l/4h	
Substance: 2-butoxyethanol	
Species: Guinea pig	
Test: LD0	
Route of exposure: Dermal	
Result: >2000 mg/kg	
Culture of the second second	
Substance: 2-butoxyethanol Species: Rat	
Test: LD50	
Route of exposure: Oral	
Result: 1300 mg/kg	
Skin corrosion/irritation	
Causes skin irritation.	
Data on substance: 2-(2-butoxyethoxy)ethanol	
Test: OECD Guideline 404	
Organism: Rabbit	
Result: not irritating	
Serious eye damage/irritation	
Causes serious eye irritation.	
Data on substance: 2-(2-butoxyethoxy)ethanol	
Test: OECD Guideline 404	
Organism: Rabbit	
Result: irritating	
Respiratory or skin sensitisation	
Data on substance: 2-(2-butoxyethoxy)ethanol	
Test: OECD Guideline 406	
Organism: Guinea pig	
Result: Negative	
Germ cell mutagenicity	
No data available.	
Carcinogenicity	
No data available. Reproductive toxicity	
No data available.	
STOT-single exposure	
No data available.	
STOT-repeated exposure	
No data available.	
Aspiration hazard	
No data available.	
Long term effects	
This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Expo	sure may result in an
increased absorption potential of other hazardous substances at the area of exposure.	
SECTION 12: Ecological information	
12.1. Toxicity	
Substance: Citronsyre monohydrat	
Speries: Fish	

Substance: Citronsyre monohydrat Species: Fish Test: LC50 Duration: 48h Result: 440 mg/l

Substance: Citronsyre monohydrat Species: Daphnia Test: LC50 Duration: 24h Result: 1535 mg/l

Substance: 2-(2-butoxyethoxy)ethanol Species: Fish Test: LC50



Duration: 96h Result: >100 mg/l

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

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

Substance: propan-2-ol Species: Fish Test: LC50 Duration: 96h Result: >100 mg/l

Substance: propan-2-ol Species: Daphnia Test: LC50 Duration: 48h Result: >100 mg/l

Substance: propan-2-ol Species: Algae Test: EC50 Duration: 72h Result: >100mg/l

Substance: Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie... Species: Daphnia Test: EC50 Duration: 48h Result: 2.23 mg/l

Substance: Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie... Species: Algae Test: EC50 Duration: 72h Result: 1.9 mg/l

Substance: Fatty acids, C10-20 and C16-18-unsatd., reaction products with trie... Species: Fish Test: LC50 Duration: 96h Result: 1.91 mg/l

Substance: 2-butoxyethanol Species: Algae Test: EC50 Duration: 72h Result: 1840 mg/l

Substance: 2-butoxyethanol Species: Fish Test: LC50 Duration: 96h Result: 1474 mg/l

Substance: 2-butoxyethanol Species: Daphnia Test: EC50 Duration: 48h Result: 1550 mg/l

Substance: 2-butoxyethanol Species: Fish Test: NOEC Duration: 21d



According to EC-Regulation 2015/830			
Result: 100 mg/l			
Substance: 2-butoxyethanol			
Species: Daphnia			
Test: NOEC			
Duration: 21d			
Result: 100 mg/l			
12.2. Persistence and degradability			
Substance	Biodegradability	Test	Result
Citronsyre monohydrat	Yes	No data available	No data available
Hydrocarbons, C10-C13, n-alkan	Yes	No data available	No data available
2-(2-butoxyethoxy)ethanol	Yes	Modified OECD	100%
propan-2-ol	Yes	Screening Test	No data available
Fatty acids, C10-20 and C16-18	Yes	No data available CO2 Evolution Test	>60%
2-butoxyethanol	Yes	CO2 Evolution Test	90,4
12.3. Bioaccumulative potential			
Substance	Potential bioaccumulation	LogPow	BCF
Citronsyre monohydrat	No	-1.72	No data available
Hydrocarbons, C10-C13, n-alkan	No	No data available	No data available
2-(2-butoxyethoxy)ethanol	No	1	No data available
propan-2-ol	No	0.05	No data available
2-butoxyethanol	No	0.81	No data available
12.4. Mobility in soil			
Citronsyre monohydrat: Log Koc= -1.283668, C			
2-(2-butoxyethoxy)ethanol: Log Koc= 0.8703, C		potential.).	
propan-2-ol: Log Koc= 0.117995, Calculated fro 2-butoxyethanol: Log Koc= 0.719839, Calculate	off LogPow (High mobility potential.).		
12.5. Results of PBT and vPvB assessme		ai. <i>)</i> .	
This mixture/product does not contain any subs		classifying them as PBT a	nd/or vPvB
12.6. Other adverse effects	stances considered to meet the chiena		
Nothing special			
SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
	and the second second second		
Product is covered by the regulations	on hazardous waste.		
Waste	on hazardous waste.		
	on hazardous waste.		
Waste	on hazardous waste.		
Waste EWC code	on hazardous waste.		
Waste EWC code Specific labelling	on hazardous waste.		
Waste EWC code Specific labelling Not applicable	on hazardous waste.		
Waste EWC code Specific labelling Not applicable Contaminated packing		t	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp		t.	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp		t	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information		t	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4	posed of similarly to the produc	t	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE	posed of similarly to the produc	<u>t.</u>	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE ADR/RID	posed of similarly to the produc	<u>t.</u>	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE ADR/RID 14.1. UN number	posed of similarly to the produc	<u>t.</u>	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE ADR/RID 14.1. UN number 14.2. UN proper shipping name	posed of similarly to the produc	<u>t.</u>	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE ADR/RID 14.1. UN number	posed of similarly to the produc	: <u>t.</u>	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE ADR/RID 14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group	posed of similarly to the produc	: <u>t.</u>	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE ADR/RID 14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group Notes	posed of similarly to the produc	:t.	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE ADR/RID 14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group	posed of similarly to the produc	:t.	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE ADR/RID 14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group Notes	posed of similarly to the produc	: <u>t.</u>	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE 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	posed of similarly to the produc	: <u>t.</u>	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE 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	posed of similarly to the produc	: <u>t.</u>	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE 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	posed of similarly to the produc	: <u>t.</u>	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE 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*	posed of similarly to the produc	t.	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE 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	posed of similarly to the produc	t.	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE 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**	posed of similarly to the produc	<u>t.</u>	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE 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	posed of similarly to the produc	<u>t.</u>	
Waste EWC code Specific labelling Not applicable Contaminated packing Contaminated packaging must be disp SECTION 14: Transport information 14.1 – 14.4 Not dangerous goods according to AE 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**	posed of similarly to the produc	t.	



Proper Shipping Name	-		
Class	-		
PG*	-		
14.5. Environmental haza	irds		
-			
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.

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** 

#### **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 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.

#### Seveso

### Biocidal reg. no.

Not applicable

#### Sources

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

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

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

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP). Regulation (EC) 1907/2006 (REACH).

## 15.2. Chemical safety assessment

No

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

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

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.

H336 - May cause drowsiness or dizziness.

EUH066 - Repeated exposure may cause skin dryness or cracking.

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

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