

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**BLUE WONDER LIMESCALE CLEANER**

Date: 18-02-2020

Version 1

Supersedes: n.a.

Changes compared to the previous version: n.a.

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**1. Identification of the substance/mixture and the company/undertaking****1.1 Product identification**

Chemical product type : Mixture  
Name : BLUE WONDER LIMESCALE CLEANER  
Code : 8712038000571

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

Use : descaling and cleaning agent

**1.3 Details of the supplier of the safety data sheet****Supplier:**

Blue Wonder  
Leidsevaartweg 1  
NL 2106 NA Heemstede  
Telephone no: +31 (0)251-315683  
E-mail: info@bluewonder.nl

**1.4 Emergency telephone number**

Tel. +31(0)30-2748888 (National Poisons Information Centre, NB this service is only available to health professionals).

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**2. Hazards identification****2.1 Classification of the substance or mixture****Classification according to Directive 1272/2008 (CLP)**

Eye Irrit 2, H319  
Aquatic Chronic. 3, H412

**2.2 Label elements**

Symbol(s) GHS07



Signal word Warning

**Hazard statements (H-phrases)**

H318 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements (P-phrases)**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
P337+P313 If eye irritation persists get medical advice/attention.  
P273 Avoid release to the environment.

**EUH phrases:**

EUH208 Contains Limonene. May produce an allergic reaction.

**Dangerous components to be mentioned on the label:** n.a.



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**BLUE WONDER LIMESCALE CLEANER**

page. 2/5

**2.3 Other hazards**

No additional information.

**3. Composition/information on ingredients**

**3.1 Substances**

Not applicable.

**3.2 Mixtures**

**Regulation (CE) No. 648/2004 on detergents**

Anionic surfactants 0-5%  
Perfumes, Limonene, Citral, Hexyl Cinnamal, Linalool.

**Dangerous components**

Product identifier	Name	wt%	classification acc. 1272/2008 (CLP)
CAS no. 77-92-9 EC no. 201-069-1 REACH no. 01-2119457026-42	Citric Acid 0 aq.	>60	Eye Irrit. 2, H 319
CAS no. 5329-14-6 EC no.. 226-218-8 REACH no. 01-2119488633-28	Sulphamic Acid	0-5	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Chronic 3, H412
CAS no. 68439-57-6 REACH no. 01-2119513401-57	Sodium alpha olefin (C14-16) sulfonate.	0-5	Eye Dam 1, H318 Skin Irrit. 2, H315
CAS no. 5989-27-5 EG no. 227-813-5 REACH no. 01-2119529223-47	(R) p-Mentha-1,8-dien	0,1-0,25	Flam. Liq. 3, H226 Asp. Tox 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases see section 16

**4. First aid measures**

**4.1 Description of first aid measures**

**After inhalation:** If excessively inhaled remove the victim into fresh air.  
**After skin contact:** Rinse off with water.  
**After eye contact:** Remove contact lenses if present. Flush eyes with running water for several minutes. Seek for medical attention if ill effect or irritation develops.  
**After swallowing:** Drink water. Seek medical attention if you fell unwell.

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

**Inhalation:** No serious symptoms expected  
**Skin contact:** Irritation may occur.  
**Eye contact:** Irritation, redness.  
**Ingestion:** Irritation of the mucous membranes is possible.

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

In case of doubt seek for medical attention.

**5. Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media:** The product it self does not burn. All extinguishing media are suitable.

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

Combustion may generate vapors from carbon and sulfur oxides.

**5.3 Advice for firefighters**

Use the standard protective equipment. If necessary, use an FFP3 / NPF 50 anti-dust mask type acc. EN 149-2009.



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**BLUE WONDER LIMESCALE CLEANER**

page 3/5

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## **6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Refer to section 8 for details about personal protection.

### **6.2 Environmental precautions**

Prevent entry to sewers, ground and public waters. Take residues to an authorized waste station.

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

**Methods for cleaning up:** rinse contaminated surface with water.

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## **7. Handling and storage**

### **7.1 Precautions for safe handling**

Do not eat, drink or smoke during use of the product.

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

**Storage:** Keep in well closed containers in a cool and dry room.

### **7.3 Specific end use(s)**

Prevent contact with skin and eyes.

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## **8. Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Threshold limit values:**

The product does not contain any relevant quantities of substances that must be observed with regard to the space.

### **8.2 Exposure controls**

#### **Respiratory protection:**

Not required under normal use.

#### **Hand protection:**

Not required under normal use. For large-scale use, use gloves made of nitrile, neoprene, butyl rubber or PVC.

#### **Eye protection:**

Wear safety glasses.

#### **Skin protection:**

Not required under normal use.

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## **9. Physical and chemical properties**

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

<b>Physical state:</b>	powder
<b>Colour:</b>	blue
<b>Odour:</b>	perfumed
<b>Odour threshold:</b>	no data available
<b>pH value:</b>	2,1 (3% solution)
<b>Melting point/freezing point:</b>	no data available
<b>Boiling point:</b>	n.a.
<b>Flash point:</b>	none
<b>Self ignition temperature:</b>	n.a.
<b>Explosion limits:</b>	n.a.
<b>Vapour pressure:</b>	no data available
<b>Vapour density:</b>	no data available
<b>Decomposition temperature:</b>	no data available
<b>Oxidising properties:</b>	none
<b>Density (20°C.):</b>	approx. 0,7 g/cm <sup>3</sup>
<b>Viscosity (dynamic, 20°C.):</b>	n.a.
<b>Water solubility:</b>	completely soluble
<b>Partition coefficient n-octanol/water</b>	n.a.

### **9.2 Other information**

No additional information available.



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**BLUE WONDER LIMESCALE CLEANER**

page 4/5

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## **10. Stability and reactivity**

### **10.1 Reactivity**

Reacts with alkalis.

### **10.2 Chemical stability**

Stable under normal conditions of storage and transport.

### **10.3 Possibility of hazardous reactions**

None.

### **10.4 Conditions to avoid**

Heat, open fire (see 10.6).

### **10.5 Incompatible materials**

Oxidants, bases, reducing agents, calcareous stone.

### **10.6 Hazardous decomposition products**

Harmful vapors may form during heat or fire.

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## **11. Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

Citric Acid 0 aq.	LD50 (oral, mouse) 5400 mg/kg
	LD50 (dermal, rat) >2000 mg/kg
Sulphamic Acid:	LD50 (oral, rat) >2000 mg/kg
Sodium alpha olefin (C14-16) sulfonate:	LD50 (oral, rat) 2079 mg/kg
	LD50 (dermal, rat) ca. 6300 mg/kg
(R) p-Mentha-1,8-dien	LD50 (oral, rat) >2000 mg/kg

### **11.2 Symptoms/routes of exposure**

Inhalation:	No serious symptoms expected.
Skin contact:	Irritation may occur.
Eye contact:	Irritation, redness.
Ingestion:	Irritation of the mucous membranes is possible.

### **11.3 Additional information**

Sensitisation:	Not classified.
CMR-effects:	No effects are known.

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## **12. Ecological information**

### **12.1 Toxicity**

Citric Acid 0 aq.:	LC50 (fish, 48 h, <i>Leuciscus idus melanotus</i> ) ± 440 mg/l
	EC50 (daphnia magna, 24 h) 1535 mg/l
Sulphamic Acid:	LC50 (fish, <i>Pimephales promelas</i> , 96 h) 70.3 mg/l
Sodium alpha olefin (C14-16) sulfonate:	LC50 (fish, 96 h), 4,2 mg/l
	EC50 (daphnia magna, 48 h) 4,5 mg/l
(R) p-Mentha-1,8-dien	LC50 (fish, <i>Pimephales promelas</i> , 96 h) 0,72 mg/l

### **12.2 Persistence and degradability**

The surfactants are fully degradable and meet the relevant OECD test.

### **12.3 Bioaccumulative potential**

No information available

### **12.4 Mobility in soil**

Soluble in water.



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**BLUE WONDER LIMESCALE CLEANER**

page 5/5

**12.5 Results of PBT and zPzB-assessment**

Not identified

**12.6 Other adverse effects**

No special information.

**13. Disposal considerations**

**13.1 Waste treatment methods**

Do not discharge this substance and / or its container into sewers, soil or surface water, but dispose of in a safe manner in accordance with local / national regulations.

**14. Transport information**

**14.1 VN-number**

**UN-number:** Not classified.

**14.2 UN Proper shipping name**

Not applicable

**14.3 Transport hazard class(es)**

**Class (ADR)** Not applicable

**14.4 Packaging group:**

Not applicable

**14.5 Environmental hazard:**

No Marine pollutant

**4.6 Special precautions for user**

**Special precautions:** None

**Tunnel code:** Not applicable

**Transport category:** Not applicable

**15. Regulatory information**

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

No additional information.

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out

**16. Other information**

The contents and the format of this MSDS are in accordance with regulation 453/2010/EC.

Full text of H phrases in section 3, relevant for the ingredients: (in section 2 these are mentioned for the product itself).

Flam. Liq. 3	Flammable liquids, category 3	H226	Flammable liquid and vapour.
Asp. Tox. 1	Aspiration Hazard, category 1	H304	May be fatal if swallowed and enters airways.
Skin Irrit. 2	Skin Corrosion / Irritation, category 2	H315	Causes skin irritation.
Eye Dam. 1	Eye Damage / Eye Irritation, category 1	H318	Causes serious eye damage.
Eye Irrit. 2	Eye Damage / Eye Irritation, category 2	H319	Causes serious eye irritation.
Aquatic. Acute 1	Hazardous to the Aquatic Environment – Acute Hazard, category 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	Hazardous to the Aquatic Environment – Chronic Hazard, category 1	H410	Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 3	Hazardous to the Aquatic Environment – Chronic Hazard, category 3	H412	Harmful to aquatic life with long lasting effects.

This information is based on our current knowledge. It should not therefore be construed as guaranteeing any specific property of the product.