

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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## ClaraClean 2.0 - SaniClean Citrus Essence

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

#### 1.1. Product identifier

Trade name/designation:

ClaraClean 2.0 - SaniClean Citrus Essence

Additional information:

Packing units: 1/2/2.5/5/10/20/100/200/640/1000 liters

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

Use of the substance/mixture:

Textile coating.

There is no advice against any use.

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

**AVET AG**

Eichwiesstrasse 9

CH-8630 Rüti

Telephone: +41 (0)55 251 40 60

E-mail (competent person): info@encoma.net

Information on the safety data sheet and phone number on behalf of the distributor: Environment Consulting ENCOMA GmbH +41 (0)41 610 12 11 (Office hours)

#### 1.4. Emergency telephone number

United States of America: Poison control center - national hotline number 1-800-222-1222 Great Britain: National phone number 111 Republic of Ireland: National phone number 01 809 2166 Czech Republic: Toxikologické informační středisko +420 224 919 293, +420 224 915 402 Denmark: Giftlinjen +45 82 12 12 12 France: numéro ORFILA (INRS) : +33 (0)1 45 42 59 59 Italy: 06-3054343 (24h/24h), Centro antiveleni Policlinico Umberto I, Roma Spain: National Emergency Telephone Number: +34 91 562 04 20. The information will be provided in Spanish (24h/365 days). Sweden: +46 112 in case of emergency poisoning and ask for Poison Information both day and night. +46 08-331231 if you have other questions concerning acute poisonings mon-fri 9.00-17.00.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS07**

Exclamation mark

Signal word: Warning

hazard statements for health hazards

H319 Causes serious eye irritation.

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### Supplemental Hazard information (EU)

EUH208	Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1), linalool, geraniol. May produce an allergic reaction.
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### Precautionary statements Prevention

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary statements Response

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.

### Precautionary statements Disposal

P501	Dispose of contents/container to an installation for the treatment of hazardous waste.
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### 2.3. Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
	<b>alcohol ethoxylate</b> Acute Tox. 4, Eye Dam. 1 <b>Danger</b> H302-H318	1 - < 2.5 Wt %
<b>CAS No.:</b> 77-92-9 <b>EC No.:</b> 201-069-1	<b>citric acid</b> Eye Irrit. 2 <b>Warning</b> H319	0 - ≤ 1 Wt %
<b>CAS No.:</b> 78-70-6 <b>EC No.:</b> 201-134-4	<b>linalool</b> Skin Sens. 1B <b>Warning</b> H317	0 - ≤ 0.5 Wt %
<b>CAS No.:</b> 106-24-1 <b>EC No.:</b> 203-377-1	<b>geraniol</b> Eye Dam. 1, Skin Irrit. 2, Skin Sens. 1 <b>Danger</b> H315-H317-H318	0 - ≤ 0.5 Wt %
<b>CAS No.:</b> 55965-84-9	<b>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)</b> Acute Tox. 3, Aquatic Acute 1, Aquatic Chronic 1, Skin Corr. 1B, Skin Sens. 1 <b>Danger</b> H301-H311-H314-H317-H331-H410	< 0.0015 Wt %

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

Take off immediately all contaminated clothing. It's recommended to install an eye bath or to provide at least a sufficient number of eye wash bottles with clean water.

#### Following inhalation:

Remove casualty to fresh air and keep warm and at rest.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

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### After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

### After ingestion:

Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

### Self-protection of the first aider:

Wear protective gloves/protective clothing.

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

The product may cause serious eye damage. May cause sensitization by skin contact.

### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Carbon dioxide. Extinguishing powder. Water spray jet. Fight against extended fires with a water spray jet or alcohol resistant foam.

#### Unsuitable extinguishing media:

Limitations of the used extinguishing media is determined only by the other products stored nearby.

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products:

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Keep away unprotected persons. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Use personal protection equipment. Keep away unprotected persons. Avoid contact with eyes and skin. Wear chemical resistant protective shoes. Special danger of slipping by leaking/spilling product.

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Use personal protection equipment. Wear chemical resistant protective shoes.

### 6.2. Environmental precautions

Don't allow to enter drains/surface water/groundwater. Retain contaminated washing water and dispose it.

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

#### For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Dispose of the residus of the product as hazardous waste (see section 13).

#### For cleaning up:

To clean the floor and all objects contaminated by this material, use plenty of water.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Protective measures

##### Advices on safe handling:

Avoid contact with eyes and skin. Wash hands before breaks and after work. Wear personal protection equipment (refer to section 8).

##### Fire prevent measures:

No special fire protection measures are necessary.

##### Environmental precautions:

Don't allow to enter drains/surface water/groundwater.

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

##### Technical measures and storage conditions:

Store in a well-ventilated place. Keep container tightly closed. Store in a cool dry place.

##### Packaging materials:

Keep only in original container.

##### Requirements for storage rooms and vessels:

Provide for retaining containers, eg. floor pan without outflow.

##### Hints on storage assembly:

Do not store together with Javel water or oxydizing agents.

**Storage class:** 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

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

##### Recommendation:

Textile coating.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No data available

#### \* 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

Does not contain substances above concentration limits fixing an occupational exposure limit.

##### 8.2.2. Personal protection equipment



##### Eye/face protection:

Wear tightly sealed safety glasses in accordance to EN 166.

##### Skin protection:

Use protective gloves in accordance to EN 374. The following materials are suitable: NBR, butyle rubber, PVC, thickness at least 0.4 mm.

##### Respiratory protection:

Not required.

##### Other protection measures:

When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work. Avoid contact with eyes and skin. Take off immediately all contaminated clothing and wash it before reuse.

##### 8.2.3. Environmental exposure controls

Don't allow to enter drains/surface water/groundwater. Provide for retaining containers, eg. floor pan without outflow.

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### SECTION 9: Physical and chemical properties

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

##### Appearance

**Physical state:** Liquid

**Colour:** not determined

**Odour:** not determined

**Odour threshold:** No data available

##### Safety relevant basis data

parameter		at °C	Method	Remark
pH	2.5	20 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not applicable</i>			aqueous solution
Flash point	<i>not applicable</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not applicable</i>			not combustible liquid
Upper/lower flammability or explosive limits	<i>not applicable</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	<i>not determined</i>			
Bulk density	<i>not applicable</i>			aqueous solution
Water solubility	easily soluble	20 °C		
Partition coefficient: n-octanol/water	<i>not applicable</i>			aqueous solution
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

#### 9.2. Other information

No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

Toxic vapours may appear by mixing up the product with Javel water or with other products reacting heavily with strong acids.

#### 10.4. Conditions to avoid

Frost. Heat. Do not store together with acidic or basic substances. Keep away from oxidising agents.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

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### SECTION 11: Toxicological information

#### \* 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	<b>LD<sub>50</sub> oral:</b> 53 mg/kg (Rat)

**Acute oral toxicity:**

Based on available data, the classification criteria are not met.

**Acute dermal toxicity:**

Based on available data, the classification criteria are not met.

**Acute inhalation toxicity:**

Based on available data, the classification criteria are not met.

**Skin corrosion/irritation:**

Based on available data, the classification criteria are not met.

**Serious eye damage/irritation:**

Causes eye irritation.

**Respiratory or skin sensitisation:**

May cause sensitization by skin contact.

**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.

**Additional information:**

The product has not been tested. The product has not been tested. The information in this section is derived from the properties of the individual components.

### SECTION 12: Ecological information

#### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
77-92-9	citric acid	<b>LC<sub>50</sub>:</b> 160 mg/l 2 d (crustaceans)
55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	<b>LC<sub>50</sub>:</b> 0.36 mg/l 4 d (fish, fish) <b>LC<sub>50</sub>:</b> 0.56 mg/l 4 d (crustaceans, crustaceans) <b>EC<sub>50</sub>:</b> 1.07 mg/l 2 d (crustaceans, crustaceans) <b>EC<sub>50</sub>:</b> 0.13 mg/l 3 d (Algae/water plant, Algae/water plant) <b>EC<sub>50</sub>:</b> 0.06 mg/l 4 d (Algae/water plant, Algae/water plant) <b>LC<sub>50</sub>:</b> 0.19 mg/l 4 d (fish, fish) <b>LC<sub>50</sub>:</b> 0.056 mg/l 2 d (crustaceans, crustaceans) <b>EC<sub>50</sub>:</b> 0.18 mg/l 2 d (crustaceans, crustaceans)

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### 12.2. Persistence and degradability

#### Biodegradation:

The single components are biodegradable. The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

### 12.3. Bioaccumulative potential

#### Bioconcentration factor (BCF):

not applicable

#### Partition coefficient: n-octanol/water:

not applicable

### 12.4. Mobility in soil

The components are adsorbed of the soil and neutralized. They are easily biodegradable.

### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
77-92-9	citric acid	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
78-70-6	linalool	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
106-24-1	geraniol	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
	alcohol ethoxylate	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

not applicable

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### \* 13.1. Waste treatment methods

The product may not be eliminated as municipal solid waste nor allowed to end up in the drainage system. These packs can be delivered packaging-specific to the existing collection points for hazardous waste.

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

#### Waste code product:

20 01 29 *	Detergents containing hazardous substances
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\*: Evidence for disposal must be provided.

#### Remark:

Wastecode according to regulation EU 2014/955: 20 01 29 (S) Detergents containing dangerous substances

#### Waste code packaging:

#### Remark:

Wastecode according to regulation EU 2014/955:

#### Waste treatment options

##### Appropriate disposal / Product:

Dispose of product and partially emptied packaging as special waste.

##### Appropriate disposal / Package:

Empty packaging can be recycled or eliminated as municipal solid waste.

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### SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN-No.</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.2. UN proper shipping name</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.3. Transport hazard class(es)</b>			
not relevant			
<b>14.4. Packing group</b>			
not relevant			
<b>14.5. Environmental hazards</b>			
not relevant			
<b>14.6. Special precautions for user</b>			
not relevant			

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
not relevant

### SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Other regulations (EU):

Regulation (EC) No. 648/2004 (Detergents regulation)

#### 15.1.2. National regulations

No data available

#### 15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### 16.1. Indication of changes

3.2.	Mixtures
8.2.	Exposure controls
11.1.	Information on toxicological effects
13.1.	Waste treatment methods
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.2.	Abbreviations and acronyms



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### \* 16.2. Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR European agreement concerning the international carriage of dangerous goods by road

CAS Chemical Abstract Service

CLP Classification, labelling and Packaging

EC50 Effective Concentration 50%

EN European norm

IATA International Air Transport Association

IMDG-Code International Maritime Dangerous Goods Code

LC50 Lethal Concentration 50%

LD50 Lethal Dose 50%

OECD Organization for Economic Cooperation and Development

PBT persistent, bioaccumulative, toxic

PNEC Predicted No Effect Concentration

REACH Registration, Evaluation and Authorization of Chemicals

RID Regulations concerning the international carriage of dangerous goods by rail

SVHC Substance of Very High Concern

UN United Nations

VOC Volatile organic compounds

vPvB very persistent, very bioaccumulative

### 16.3. Key literature references and sources for data

Security safety data sheet of the ingredients.

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

#### Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic 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.
H331	Toxic if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

### 16.6. Training advice

Persons charged with the handling and cleaning of the product must be trained prior to start their work and in regular intervals. They must be informed about the risks using the product and the measures to take for efficient prevention. This concerns particularly working security, first aid, health and environment protection.

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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\* Data changed compared with the previous version