

# SAFETY DATA SHEET

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

Revision date: 26-Nov-2017

Print date: 26-Nov-2017

Version: 2

Page 1/8



## ClaraClean 2.0 - UniClean Citrus

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

#### 1.1. Product identifier

Trade name/designation:

ClaraClean 2.0 - UniClean Citrus

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. Reserved for industrial and professional 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 antiveneni 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]:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

#### 2.2. Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

#### 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-2H -isothiazol-3-one [EC no. 220-239-6] (3:1); 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.

#### 2.3. Other hazards

Other adverse effects:

No data available.

# SAFETY DATA SHEET

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

Revision date: 26-Nov-2017

Print date: 26-Nov-2017

Version: 2

Page 2/8



## ClaraClean 2.0 - UniClean Citrus

### 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
CAS No.: 78-70-6 EC No.: 201-134-4	<b>linalool</b> Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1 H315-H317-H319	0 - ≤ 1 Wt %
CAS No.: 106-24-1 EC No.: 203-377-1	<b>geraniol</b> Eye Dam. 1, Skin Irrit. 2, Skin Sens. 1 <b>Danger</b> H315-H317-H318	0 - ≤ 1 Wt %
CAS No.: 55965-84-9	<b>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1); 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> Skin Corr. 1B, Acute Tox. 3, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1 <b>Danger</b> H301-H311-H314-H317-H331-H410	0 - < 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:

Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

##### 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. If skin irritation or rash occurs: Get medical advice/attention.

##### After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

##### After ingestion:

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Get medical advice/attention if you feel unwell.

##### Self-protection of the first aider:

Wear protective gloves.

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

May cause sensitization by skin contact.

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

Treat symptomatically.

### 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.

# SAFETY DATA SHEET

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

**Revision date:** 26-Nov-2017

**Print date:** 26-Nov-2017

**Version:** 2

Page 3/8



## ClaraClean 2.0 - UniClean Citrus

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

#### Hazardous combustion products:

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Gases/vapours, harmful.

### 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.

### 5.4. Additional information

No data available.

## 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. Special danger of slipping by leaking/spilling product.

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Use personal protection equipment.

### 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).

#### 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

### 6.5. Additional information

No data available.

## 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:

Do not allow to enter into surface water or drains.

### 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 strong acids. Keep away from oxidising agents.

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

# SAFETY DATA SHEET

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

Revision date: 26-Nov-2017

Print date: 26-Nov-2017

Version: 2

Page 4/8



## ClaraClean 2.0 - UniClean Citrus

### 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

No data available.

#### 8.2.2. Personal protection equipment



**Eye/face protection:**

Not required.

**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

Do not allow to enter into surface water or drains.

### 8.3. Additional information

No data available.

## SECTION 9: Physical and chemical properties

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

**Appearance**

**Physical state:** Liquid

**Colour:** cloudy

**Odour:** light, characteristic

**Safety relevant basis data**

parameter		at °C	Method	Remark
pH	11	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 (°C):	<i>not determined</i>			
Flash point	<i>not applicable</i>			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<i>not applicable</i>			
Upper/lower flammability or explosive limits	<i>not applicable</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Relative density	<i>not determined</i>			
Bulk density	<i>not applicable</i>			aqueous solution
Water solubility (g/L)	easily soluble	20 °C		

# SAFETY DATA SHEET

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

Revision date: 26-Nov-2017

Print date: 26-Nov-2017

Version: 2

Page 5/8



## ClaraClean 2.0 - UniClean Citrus

parameter		at °C	Method	Remark
Partition coefficient: n-octanol/ water	<i>not determined</i>			
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

No known hazardous reactions.

### 10.4. Conditions to avoid

Frost . Heat .

### 10.5. Incompatible materials

Do not store together with strong acids. Keep away from oxidising agents.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## 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-2H - isothiazol-3-one [EC no. 220-239-6] (3:1); react ion 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> 100.1 mg/kg (Rat) <b>LC<sub>50</sub> inhalative:</b> 3.1 ppmV (Rat) <b>LD<sub>50</sub> dermal:</b> 300.1 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:

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

#### 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.

# SAFETY DATA SHEET

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

Revision date: 26-Nov-2017

Print date: 26-Nov-2017

Version: 2

Page 6/8



## ClaraClean 2.0 - UniClean Citrus

### 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
55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); 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) <b>LC<sub>50</sub></b> : 0.13 mg/l 3 d (Alga)

### Aquatic toxicity:

No data available.

### 12.2. Persistence and degradability

#### Biodegradation:

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):

No indication of bioaccumulation potential. All substances of the product are easily soluble in water.

### 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
78-70-6	linalool	—
106-24-1	geraniol	—
55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); 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 substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Residus of the product can be eliminated as municipal solid waste. Empty packaging can be recycled or eliminated as municipal solid waste.

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

#### Waste code product:

20 01 30	detergents other than those mentioned in 20 01 29
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#### Remark:

Wastecode according to regulation EU 2014/955:

#### Waste code packaging:

15 01 02	Plastic packaging
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# SAFETY DATA SHEET

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

**Revision date:** 26-Nov-2017

**Print date:** 26-Nov-2017

**Version:** 2

Page 7/8



## ClaraClean 2.0 - UniClean Citrus

### 13.2. Additional information

No data available.

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

### 14.1. UN-No.

not relevant

### 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

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

Chemical safety assessments for substances in this mixture were not carried out.

### 15.3. Additional information

No data available.

## SECTION 16: Other information

### 16.1. Indication of changes

This is the second version according to regulations (EC) 1272/2008 and (EU) 830/2015. Modifications compared to Version 1: SECTION 2: Hazards identification. SECTION 3: Composition / information on ingredients. SECTION 8: Exposure controls/personal protection. SECTION 11: Toxicological information. SECTION 13: Disposal considerations.

### 16.2. Abbreviations and acronyms

No data available.

### 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]:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

# SAFETY DATA SHEET

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

**Revision date:** 26-Nov-2017

**Print date:** 26-Nov-2017

**Version:** 2

Page 8/8



## ClaraClean 2.0 - UniClean Citrus

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

Hazard statements	
H301	Toxic 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.
H400	Very toxic to aquatic life.
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.