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

1.1. Product identifier
Product form: Mixture
Name: Orbio MultiMicro Concentrate
Type of product: Detergent

1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1. Relevant identified uses
Main use category: Industrial use, Professional use
Industrial/Professional use spec: Industrial
For professional use only
Use of the substance/mixture: Disinfectant

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
Tennant Europe NV / Att.: Shared Service Center EMEA
Roderveldlaan 3
2600 Antwerpen - Belgium
T +32 321 794 11
www.orbio.com / info@tennantco.com

1.4. Emergency telephone number
<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Emergency number</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNITED KINGDOM</td>
<td>CHEMTREC UK</td>
<td>+44 (0) 870 8200418 (24 hrs.)</td>
</tr>
</tbody>
</table>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
No labelling applicable

2.3. Other hazards
Other hazards not contributing to the classification: None under normal conditions.
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture
Name: Active chlorine generated from sodium chloride by electrolysis (0.15% hypochlorous acid)

Product identifier: (CAS No) Not allocated

%: 100

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact: Take off contaminated clothes, wash skin with plenty of water or have a shower (during minimum 15 minutes) and if necessary take medical advice.

First-aid measures after eye contact: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact: May cause moderate irritation.

Symptoms/injuries after eye contact: May cause eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Non combustible.

Explosion hazard: No direct explosion hazard.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

Concerning personal protective equipment to use, see item 8. Concerning disposal elimination after cleaning, see item 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in the original container in a cool well ventilated place. Keep away from heat and direct sunlight. Keep container closed when not in use.


7.3. Specific end use(s)

Cleaning product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: In case of repeated or prolonged contact wear gloves.

Eye protection: None under normal use.

Skin and body protection: No special clothing/skin protection equipment is recommended under normal conditions of use.

Respiratory protection: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Half-mask with filter according to EN 149.

Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid.

Appearance: Clear.

Colour: Colourless.

Odour: Slight chlorine.

Odour threshold: No data available.

pH: 5 - 6.

Relative evaporation rate (butylacetate=1): No data available.

Melting point: No data available.

Freezing point: 0 °C.

Boiling point: 100 °C.

Flash point: No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Flammability (solid, gas): No data available.

Vapour pressure: No data available.

Relative vapour density at 20 °C: No data available.

Relative density: No data available.

Solubility: Soluble in water.

Log Pow: No data available.

Viscosity, kinematic: 1 mPa.s.

Viscosity, dynamic: No data available.

Explosive properties: No data available.

Oxidising properties: No data available.

Explosive limits: No data available.

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The active ingredient is an oxidizer. Do not mix with other chemicals.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.
### 10.3. Possibility of hazardous reactions
Harmful gases may be released if the product comes into contact with acids or ammonia.

### 10.4. Conditions to avoid
Freezing. High temperature.

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products
Carbon oxides (CO, CO₂).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
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</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>May cause skin irritation pH: 5 - 6</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>May cause eye irritation pH: 5 - 6</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
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</tr>
<tr>
<td>Additional information</td>
<td>Based on available data, the classification criteria are not met</td>
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<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Additional information</td>
<td>Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
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<td>Additional information</td>
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<tr>
<td>Specific target organ toxicity (single exposure)</td>
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<tr>
<td>Additional information</td>
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<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
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<td>Additional information</td>
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<tr>
<td>Aspiration hazard</td>
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<td>Additional information</td>
<td>Based on available data, the classification criteria are not met</td>
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### SECTION 12: Ecological information

#### 12.1. Toxicity
No additional information available

#### 12.2. Persistence and degradability

<table>
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<th>Persistence and degradability</th>
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<tbody>
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<td>Not established.</td>
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#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
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</thead>
<tbody>
<tr>
<td>Orbio MultiMicro Concentrate</td>
<td>Not established.</td>
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</table>

#### 12.4. Mobility in soil
No additional information available

#### 12.5. Results of PBT and vPvB assessment

<table>
<thead>
<tr>
<th>Substance</th>
<th>PBT criteria</th>
<th>vPvB criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orbio MultiMicro Concentrate</td>
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<td>Does not meet</td>
</tr>
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</table>

#### 12.6. Other adverse effects
Additional information: Avoid release to the environment

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
Orbio MultiMicro Concentrate
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information
In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
UN-No. (ADR): Not applicable
UN-No. (IATA): Not applicable

14.2. UN proper shipping name
Proper Shipping Name (ADR): Not applicable
Proper Shipping Name (IATA): Not applicable

14.3. Transport hazard class(es)
ADR
Transport hazard class(es) (ADR): Not applicable

IATA
Transport hazard class(es) (IATA): Not applicable

14.4. Packing group
Packing group (ADR): Not applicable
Packing group (IATA): Not applicable

14.5. Environmental hazards
Dangerous for the environment: No
Other information: No supplementary information available

14.6. Special precautions for user
- Overland transport
No data available

- Air transport
Transport regulations (IATA): Not subject

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
Type of product (Biocide): 2 - Disinfectants and algaeicides not intended for direct application to humans or animals

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

<table>
<thead>
<tr>
<th>1.1</th>
<th>Product form</th>
<th>Modified</th>
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<td>Main use category</td>
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<td>Incompatible products</td>
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<td>8.2</td>
<td>Eye protection</td>
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<td>10.1</td>
<td>Reactivity</td>
<td>Modified</td>
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<tr>
<td>10.2</td>
<td>Chemical stability</td>
<td>Modified</td>
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<tr>
<td>10.3</td>
<td>Possibility of hazardous reactions</td>
<td>Modified</td>
</tr>
<tr>
<td>10.4</td>
<td>Conditions to avoid</td>
<td>Modified</td>
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<td>10.5</td>
<td>Incompatible materials</td>
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<td>10.6</td>
<td>Hazardous decomposition products</td>
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<td>11.1</td>
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<td>16</td>
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<tr>
<td>16</td>
<td>Data sources</td>
<td>Modified</td>
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Abbreviations and acronyms:
- CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
- PBT: Persistent Bioaccumulative Toxic
- vPvB: Very Persistent and Very Bioaccumulative
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- IATA: International Air Transport Association
- IMDG: International Maritime Dangerous Goods
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- LC50: Median lethal concentration
- LD50: Median lethal dose
- CAS: CAS (Chemical Abstracts Service) number
- EG-nr.: EINECS- en ELINCS-number
- EINECS: European Inventory of Existing Commercial Substances


Other information: REACH Disclaimer:
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Safety Data Sheet applicable for regions: CHEM_UK - United Kingdom; GB - United Kingdom; GR - Greece; IE - Ireland; MT - Malta

This Safety Data Sheet is compiled by:
Trade Wind B.V. (info@twnl.com)

SDS EU (REACH Annex II)
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.