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

1.1. Product identifier

Product form : Mixture
Name : Orbio MultiMicro 200
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>
<tr>
<td>IRELAND</td>
<td>NATIONAL POISONS INFROMATION CENTRE, BEAUMONT HOSPITAL, DUBLIN 9</td>
<td>+353 01 809 25 66 (8am-10pm (7 days)</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

No additional information available.
**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**

No precautions

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.

---

**Name** | **Product identifier** | **%** | **Classification according to Regulation (EC) No. 1272/2008 [CLP]**
---|---|---|---
Active chlorine generated from sodium chloride by electrolysis (0.02% hypochlorous acid) | (CAS No) Not allocated (EC no) Not allocated | 100 | Not classified
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: 6 - 8
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**
acids. Ammonia solution.

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

### SECTION 11: Toxicological information

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<th>Information on toxicological effects</th>
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<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
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</table>
| Skin corrosion/irritation | May cause skin irritation  
  pH: 6 - 8 |
| Serious eye damage/irritation | May cause eye irritation  
  pH: 6 - 8 |
| Respiratory or skin sensitisation | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | Not classified  
  Based on available data, the classification criteria are not met |
| Carcinogenicity | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Reproductive toxicity | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Specific target organ toxicity (repeated exposure) | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Aspiration hazard | Not classified |
| Additional information | Based on available data, the classification criteria are not met |

### SECTION 12: Ecological information

12.1. **Toxicity**
No additional information available

12.2. **Persistence and degradability**

**Orbio MultiMicro 200**
Persistence and degradability: Not established.

12.3. **Bioaccumulative potential**

**Orbio MultiMicro 200**
Bioaccumulative potential: Not established.

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

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

**Orbio MultiMicro 200**
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

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.
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
No data available

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 algacides 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:

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### Safety Data Sheet

**Orbio MultiMicro 200**

**Safety Data Sheet**

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<table>
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<td>8.2</td>
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<td>10.2</td>
<td>Chemical stability</td>
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#### Abbreviations and acronyms:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>CLP</td>
<td>Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent Bioaccumulative Toxic</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very Persistent and Very Bioaccumulative</td>
</tr>
<tr>
<td>ADR</td>
<td>European Agreement concerning the International Carriage of Dangerous Goods by Road</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>RID</td>
<td>Regulations concerning the International Carriage of Dangerous Goods by Road</td>
</tr>
<tr>
<td>LC50</td>
<td>Median lethal concentration</td>
</tr>
<tr>
<td>LD50</td>
<td>Median lethal dose</td>
</tr>
<tr>
<td>SDS</td>
<td>Safety Data Sheet</td>
</tr>
<tr>
<td>CAS</td>
<td>CAS (Chemical Abstracts Service) number</td>
</tr>
<tr>
<td>EG-nr.: EINECS- en ELINCS-number</td>
<td></td>
</tr>
<tr>
<td>EINECS: European Inventory of Existing Commercial Substances</td>
<td></td>
</tr>
</tbody>
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### Data sources


### Other information

: REACH Disclaimer:

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

### 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](mailto: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.