

**Safety data sheet**  
according to 1907/2006/EC, Article 31

FE-176/EN

Printing date 07.08.2013

Version number 2

Revision: 07.08.2013

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

- **Date of compilation:** 28.05.2010
- **1.1 Product identifier**
- **Trade name:** AIR-FLOW PERIO
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation:** Cleansing of teeth
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**  
Dr. Wittmann GmbH & Co. KG  
Rieslingstraße 8  
D-64673 Zwingenberg
- Tel.: +49 (0) 6251 – 770769- 0  
Fax.: +49 (0) 6251 – 770769-99
- **E-mail address of the competent person responsible for the Safety Data Sheet:** [sdb@csb-online.de](mailto:sdb@csb-online.de)
- **Informing department:** Sales
- **1.4 Emergency telephone number:** As above or next toxicological information centre.

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The substance is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void
- **Classification system:**  
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:** Void

· **Other components:**

|                   |         |         |
|-------------------|---------|---------|
| CAS: 56-40-6      | Glycine | 50-100% |
| EINECS: 200-272-2 |         |         |

## SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:** Rinse with plenty of water.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

(Contd. on page 2)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 07.08.2013

Version number 2

Revision: 07.08.2013

**Trade name: AIR-FLOW PERIO**

(Contd. of page 1)

- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
Carbon dioxide (CO<sub>2</sub>), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Risk of dust explosion if enriched with fine dust in presence of air.  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)  
Silica fumes
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid contact with skin and eyes.  
Avoid causing dust.  
Do not breathe dust.  
Remove all ignition sources.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Collect mechanically.  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 8 for information on personal protection equipment.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Do not breathe dust.  
Avoid long or repeated skin contact.  
Avoid contact with eyes.  
Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:**  
Risk of dust explosion if enriched with fine dust in presence of air.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

(Contd. on page 3)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 07.08.2013

Version number 2

Revision: 07.08.2013

**Trade name: AIR-FLOW PERIO**

(Contd. of page 2)

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** none
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**  
Observe all workplace limits for dust.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
Do not breathe dust.  
Avoid contact with the eyes.  
Avoid close or long term contact with the skin.  
Wash hands during breaks and at the end of the work.
- **Breathing equipment:**  
If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.  
Use breathing protection in case of dust formation.
- **Recommended filter device for short term use:** Partikelfilter EN 143 Type P1
- **Protection of hands:**  
Protective gloves  
To avoid skin problems reduce the wearing of gloves to the required minimum.  
Check the permeability prior to each renewed use of the glove.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- **Material of gloves**  
Nitrile rubber - NBR  
Recommended thickness of the material:  $\geq 0.11$  mm  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
Penetration time:  $\geq 8$  hours  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:**  
Light weight protective clothing  
Body protection must be chosen depending on activity and possible exposure.
- **Limitation and supervision of exposure into the environment**  
Do not allow to enter drainage system, surface or ground water.

GB

(Contd. on page 4)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 07.08.2013

Version number 2

Revision: 07.08.2013

Trade name: AIR-FLOW PERIO

(Contd. of page 3)

### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

Form: Powder

Colour: white

· Smell: odourless

· Odour threshold: not applicable

· pH-value: not determined

##### · Change in condition

Melting point/Melting range: 232 - 236 °C  
Decomposes before melting.

Boiling point/Boiling range: not determined

· Flash point: not applicable

· Inflammability (solid, gaseous) not determined

· Ignition temperature: not determined

· Decomposition temperature: not determined

· Self-inflammability: Product is not selfigniting.

· Danger of explosion: Risk of dust explosion if enriched with fine dust in presence of air.

##### · Critical values for explosion:

Lower: not determined

Upper: not determined

· Oxidizing properties not classified as oxidising

· Vapor pressure: not applicable

· Density at 20 °C: ~ 1.6 g/cm<sup>3</sup>

· Bulk density: not determined

· Relative density not determined

· Vapour density (AIR = 1): not applicable

· Evaporation rate not applicable

##### · Solubility in / Miscibility with

Water: partly miscible

· Partition coefficient (n-octanol/water): not determined

##### · Viscosity:

dynamic: not applicable

kinematic: not applicable

· 9.2 Other information No further relevant information available.

### SECTION 10: Stability and reactivity

#### · 10.1 Reactivity see 10.3

#### · 10.2 Chemical stability

##### · Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat.

Avoid impact, friction, heat, sparks, electrostatic charges.

#### · 10.3 Possibility of hazardous reactions

The product is not capable of dust explosion in the form supplied; enrichment with fine dust causes risk of dust explosion.

· 10.4 Conditions to avoid No further relevant information available.

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 07.08.2013

Version number 2

Revision: 07.08.2013

**Trade name: AIR-FLOW PERIO**

(Contd. of page 4)

- **10.5 Incompatible materials:**
  - Strong oxidizing agents
  - Alkaline materials
- **10.6 Hazardous decomposition products:**
  - Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)
  - Nitrogen oxides (NO<sub>x</sub>)
  - Silica fumes

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** no data available
- **Primary irritant effect:**
- **on the skin:** Dust particles may mechanically irritate the skin.
- **on the eye:** Dust particles may mechanically irritate the eye.
- **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Sensitisation** No sensitizing effect known.
- **Repeated dose toxicity** According to information currently no known toxic effects
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

According to present knowledge no CMR-effects known.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** Does not accumulate in organisms.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **Biochemical Oxygen Demand (BOD5-value):** not determined
- **AOX-indication:** not determined
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal must be made according to official regulations.
- **European waste catalogue:**

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA**

Void

(Contd. on page 6)

GB

**Safety data sheet**  
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(Contd. of page 5)

|   |  |
|---|--|
| · <b>14.2 UN proper shipping name</b>   |  |
| · <b>ADR, IMDG, IATA</b>  | Void   |
| · <b>14.3 Transport hazard class(es)</b>  |  |
| · <b>ADR, IMDG, IATA</b>  |  |
| · <b>Class</b>  | Void   |
| · <b>14.4 Packing group</b>   |  |
| · <b>ADR, IMDG, IATA</b>  | Void   |
| · <b>14.6 Special precautions for user</b>  | Not applicable.                                      |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>  | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>   | -  |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Decree to be applied in case of technical fault:** Directive 96/82/EC does not apply.
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**  
This mixture does not contain any substances, that are included in the candidate list for eventual authorisation.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Reasons for changes:**  
The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by \*.
- **Department issuing MSDS:**  
C.S.B. GmbH  
Düsseldorfer Str. 113  
47809 Krefeld / Germany  
Phone: +49 - 2151 - 652086-0  
Fax: +49 - 2151 - 652086-9
- **Abbreviations and acronyms:**  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organization  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent
- **\* Data compared to the previous version altered.**

GB