

**Material Safety Data Sheet
According to 1907/2006/EC, Article 31 (REACH)**

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Reviewed on 15.07.2009

Vario plus

1. Identification of substance

- **Trade name:** Vario plus

- **Article number:** 02101050/02101250/02101251/02101125/02101010/02113050/
02113251/02113125/02113010/02107050/02107250/02107251
02107125/02107010

- **Manufacturer/Supplier:** Klasse 4 Dental GmbH
Bismarckstr. 21
86159 Augsburg

Tel. +49 (0) 821-608914-0 Fax. +49 (0) 821-608914-10

- **Information:** s.o.

- **Emergency information:** s.o.

2. Composition/information on ingredients:

- **Chemical characterization:**

- **CAS No. Designation:** 10034-76-1 Calcium sulphate hemihydrate

- **Identification number (s):**

- **EINECS Number:** 231-900-3

- **Chemical characterization**

- **Description:** Powder

- **Dangerous components:** Void

3. Hazards identification

- **Hazard designation:** void

- **Information pertaining to particular dangers for man and environment** void

- **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

- **Dangerous components:** Void

4. First aid measures

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- **General information** No special measures required.
- **After inhalation:** Supply fresh air.
- **After skin contact:** Rinse with warm water and soap.

- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water (approx. 500 ml). In case of persistent symptoms consult doctor.

5. Fire fighting measures

- **Suitable extinguishing agents**
Use fire fighting measures that suit the environment. CO₂, extinguishing powder or water jet. Fight larger fires with foam.
- **Special hazards caused by the material, its products of combustion or flue gases:**
Fire can cause release of: Sulfur trioxide (SO₃)
- **Protective equipment:** No special measures required.

6. Accidental release measures

- **Person-related safety precautions:**
Avoid causing dust.
Wear protective clothing.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Collect mechanically.
- **Additional information:** No dangerous materials are released.

7. Handling and storage

- **Handling**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace. Provide suction extractors if dust is formed.
- **Information about protection against explosions and fires:**
The product is not flammable

- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.

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- **Further information about storage conditions:**
 Store in cool, dry conditions in well sealed containers.

8. Exposure controls and personal protection

- **Additional information about design of technical systems:**
 No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**

CAS No.	Designation of material	%	Type	Value	Unit
	General dust exposure limit, Measured as alveolic part		German TRGS 900 (2006)	3	mg/m ³

- **Additional information:**
 The lists that were valid during compilation were used as a basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
 The usual precautionary measures should be adhered to in handling the chemicals.
 Wash hands during breaks and at the end of the work.
 Do not inhale dust / smoke /mist
 Avoid contact with the eyes.
- **Breathing equipment:**
 Not necessary if room is well-ventilated.
 Use breathing protection in case of insufficient ventilation.
 Short term filter device: ABEK-filter
 Filter P1 (For solid particles, DIN 3181)
- **Protection of hand:** Not required.
- **Material of gloves:** Not applicable
- **Penetration time of glove material:** Not applicable
- **Eye protection:** Safety glasses (DIN 58211, EN 166)
- **Body protection:** Light weight protective clothing

9. Physical and chemical properties:

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General Information

- **Form:** Solid.
- **Colour:** White
- **Smell:** Odourless

Change in condition

- Melting point/Melting range:** > 1400 °C
- Boiling point/Boiling range:** Not determined
- **Flash point:** Not applicable
- **Ignition temperature:** Not applicable
- **Decomposition temperature:** Not determined
- **Danger of explosion:** Product is not explosive.

-Critical values for explosion:

- Oxidizing properties** None
- **Density at 20 °C** 2.6 g / cm³
- **Settled apparent density at 20 °C:** 1100 – 1200 kg / m³
- **Solubility in / Miscibility with Water at 20 °C:** 2 g / l
- **ph-value (10 g / l) at 20 °C** 4 - 8 (Suspension)

10. Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:** Void
- **Dangerous reactions** No dangerous reactions known
- **Dangerous composition products:** Sulphur trioxide (SO₃)

11. Toxicological information

- Acute toxicity:

-LD/LC50 values that are relevant for classification:

Components	Type	Value	Species
Product	oral	> 2000 mg/kg	rat

- Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** Moderate irritation
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**

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In our experience and according to the information provided to us, the product does not have any harmful effects when used and handled according to specification.
The material is not subject to classification according to EC lists in the last version.

12. Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:**
Inorganic salts are basically not biodegradable. Easy elimination possible by flocculation or adsorption by sludge.
- **Behaviour in environmental systems:**
- **Mobility and bioaccumulation potential:** Does not accumulate in organisms
- **Ecotoxicological effects:**
- **Other information:** No COD, no BOD, no AOX
No VOC according to EC-directive 1999/13/EC

- **Additional ecological information:**
- **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76 / 464 EC:** None

13. Disposal considerations

- **Product:**
- **Recommendation:**
Smaller quantities can be disposed with household garbage. Can be deposited with household Garbage after consulting with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
- **European waste catalogue**
06 03 14 solid salts and solution other than those mentioned in 06 03 11 and 06 03 13
- **Uncleaned packaging:**
- **Recommendation:** Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product. Dispose of packaging according to regulations on the disposal of packagings.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14. Transport information

- **Transport/Additional information:**

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Not dangerous according to the above regulations.

15. Regulatory information

- Designation according to EC guidelines:

Observe the normal safety regulations when handling chemicals

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

- National regulations

- Decree to be applied in case of technical fault:

Major accidents hazards regulation, annex: not applicable (German regulation)

- Water hazard class: WGK 1 : low water hazard risk (German regulation)

- Other regulation, limitations and prohibitive regulations

The general dust exposure limit of 3 mg/m³, measured as alveoli part has to be observed (German TRGS 900, 2006).

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.