

Safety Data Sheet

according to 1907/2006/EC, Article 31 (REACH)

Printing date 22.07.2010

Revision: 22.07.2010

1 Identification of substance

. Product details

. Trade name **Gilvest MG Speed**
Artikelnummer: 59631

. Article number: 59631

. Application of the substance / the preparation

Dental impression material
Auxiliary for dental technology
Processing aid

. Manufacturer/Supplier:

BK Giulini GmbH
Works Ludwigshafen, Giulinistraße 2
D-67065 Ludwigshafen

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. Information:

Business Unit Pharma/Cosmetics/Gypsum
Works Ladenburg Phone +49 6203 / 77-172
Works Ludwigshafen Phone +49 621 / 5709-523
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. Emergency information:

Works Ladenburg Phone +49 6203 / 77-112
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*** 2 Hazards identification**

. Hazard designation:



Xn Harmful

. Information pertaining to particular dangers for man and environment

Contains quartz. Do not inhale dust.
May cause lung injury (Silicosis/lung cancer)
R 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

. Classification system

This product is not listed in EC directive 93/72/EC.
Labelled on the basis of internal knowledge.
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.

. GHS label elements



Warning

H373 - May cause damage to organs through prolonged or repeated exposure.

. Prevention:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P285 In case of inadequate ventilation wear respiratory protection.

3 Composition/information on ingredients

. Chemical characterization:

. Identification number(s): Void

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- . **EINECS Number:** Void
- . **Chemical characterization**
- . **Description:**
Blend of quartz and cristobalite powder, ammonium phosphate and magnesium oxide.
- . **Dangerous components:**

CAS: 14808-60-7	Quartz (SiO ₂)	50-100%
EINECS: 238-878-4	Xn; R 48/20	
	Warning: health hazard 3.9/2	
CAS: 14464-46-1	cristobalite	10-25%
EINECS: 238-455-4	Xn; R 48/20	
	Warning: health hazard 3.9/2	
CAS: 1309-48-4	magnesium oxide	2.5-10%
EINECS: 215-171-9		

4 First aid measures

- . **General information** No special measures required.
- . **After inhalation :** Supply fresh air; consult doctor in case of symptoms.
- . **After skin contact :**
Wash with water and soap.
The product is not skin irritating.
- . **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.
- . **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- . **Special hazards caused by the material, its products of combustion or flue gases:**
Fire can cause release of :
Ammonia (NH₃)
Nitrogen oxides (NO_x)
- . **Protective equipment:** Do not inhale explosion gases or combustion gases.

6 Accidental release measures

- . **Person-related safety precautions:**
Avoid causing dust.
Wear protective clothing.
Use breathing protection against the effects of fumes/dust/aerosol.
- . **Measures for environmental protection:** No special measures required.
- . **Measures for cleaning/collecting:**
Collect mechanically.
Dispose of contaminated material as waste according to item 13.

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7 Handling and storage

- . **Handling**
- . **Information for safe handling:**
Prevent formation of dust.
Ensure that suitable extractors are available on processing machines
Wear breathing protection when decanting larger quantities without extractor facilities.
- . **Information about protection against explosions and fires:**
The product is not flammable
No special measures required.
- . **Storage**
- . **Requirements to be met by storerooms and containers:** No special requirements.
- . **Information about storage in one common storage facility:** Not required.
- . **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:**
1309-48-4 magnesium oxide
WEL Long-term value: 10* 4** mg/m³
(as Mg) *inhalable dust **fume and respirable dust
14808-60-7 Quartz (SiO₂)
STEL 0.15 mg/m³
TWA 0.15 mg/m³
alveolic fraction; classification by producer
14464-46-1 cristobalite
STEL 0.15 mg/m³
TWA 0.15 mg/m³
alveolic fraction; classification by producer
- . **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.
Vacuum clean contaminated clothing. Do not blow or brush off contamination.
- . **Breathing equipment:**
Use breathing protection in case of insufficient ventilation.
Short term filter device: ABEK-filter
Filter P2.
- . **Protection of hands:** Not required.
- . **Material of gloves** Not applicable
- . **Penetration time of glove material** Not applicable
- . **Eye protection:** Safety glasses (DIN 58211, EN 166)

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. Body protection: Light weight protective clothing

9 Physical and chemical properties:

. General Information

Form:	Solid
Colour:	Whitish
Smell:	Odourless

. Change in condition

Melting point/Melting range:	> 1400°C
Boiling point/Boiling range:	Not applicable

. 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
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. Density at 20°C 1.15 g/cm³. Settled apparent density at 20°C 1100 - 1200 kg/m³

. Solubility in / Miscibility with

Water:	Unsoluble
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. pH-value (10 g/l) at 20°C: ca. 6 (Suspension)

10 Stability and reactivity

. Thermal decomposition / conditions to be avoided: None

. Materials to be avoided: Alkali

. Dangerous reactions No dangerous reactions known

. Dangerous composition products:

At preheating temperature (250-300°C) slight odour like ammonia.

11 Toxicological information

. Acute toxicity:

. Primary irritant effect:

. on the skin: No irritant effect.

. on the eye: Moderate irritation

. Sensitization: No sensitizing effect known.

. Subacute to chronic toxicity:

Do not breathe dust.

Harmful: possible risk of irreversible effects through inhalation.

. Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

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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 AOX
No VOC according to EC-directive 1999/13/EC

13 Disposal considerations

- . **Product:**
- . **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Must be specially treated in adherence to official regulations.
- . **European waste catalogue**
16 03 03 inorganic wastes containing dangerous substances
- . **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:**
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 has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
- . **Code letter and hazard designation of product:**
Xn Harmful
- . **Hazard-determining components of labelling:**
Quartz (SiO₂)
cristobalite

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. Risk phrases:

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

. Safety phrases:

2 Keep out of the reach of children.

22 Do not breathe dust.

38 In case of insufficient ventilation, wear suitable respiratory equipment.

. National regulations**. Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

. 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 regulations, limitations and prohibitive regulations**

UVV "Protection against harmful mineral dust"(VBG 119) (German regulation)

The general dust exposure limit of 3 mg/m³, measured as alveolic 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.

. Relevant R-phrases

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

. Department issuing data specification sheet:

Occupational health and safety department

. Contact:

Dr. Roland Gitzing

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. Abbreviations and acronyms:

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

. * Data compared to the previous version altered.