

**SAFETY DATA SHEET (EC 1907/2006)****Deguvest Impact****Deguvest GF****Biosint extra****DeguDent**  
A Dentsply Company

Material no.	<b>5325520001</b>	Version	<b>1.11 / GB</b>
Specification	<b>128660</b>	Revision date	<b>01.02.2016</b>
VA-Nr	<b>01744547</b>	Print Date	<b>02.02.2016</b>
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**1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name	Deguvest Impact Deguvest GF Biosint extra
REACH Registration No.:	if available listed in Chapter. 3

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Relevant applications identified	For dental use only.
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**1.3. Details of the supplier of the safety data sheet**

Company	DeguDent GmbH Postfach 1364 D-63403 Hanau
Telephone	+49 (0)6181/59-5767
Telefax	+49 (0)6181/59-5879
Email address	SDB.Degudent-DE@dentsply.com

**1.4. Emergency telephone number**

Emergency information	+49 (0)180 / 23 24-555 (international)
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**2. Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Specific Target Organ Toxicity - Repeated exposure (inhalation, Lungs)	Category 1	H372
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**2.2. Label elements****Labelling as per (EU) 1272/2008****hazard-defining component(s) (GHS)**

- Quartz (SiO<sub>2</sub>)
- Cristobalite

Symbol(s)



Signal word	Danger
Hazard statement	H372 - Causes damage to organs through prolonged or repeated exposure.
Precautionary statement	P260 - Do not breathe dust. P264 - Wash hands thoroughly with soap and water after handling. P270 - Do not eat, drink or smoke when using this product. P314 - Get medical advice/ attention if you feel unwell. P501 - Dispose of contents/container in accordance with local regulation.

**2.3. Other hazards**

Can cause silicosis.

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ammonia forms if heated above 200 °C., ammonia Irritating to respiratory system.

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

**3. Composition/information on ingredients****Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008**

<b>• Quartz (SiO<sub>2</sub>)</b>	50% - 70%			
CAS-No.	14808-60-7	EC-No.	238-878-4	
Specific Target Organ Toxicity - Repeated exposure (inhalation, Lungs)				Category 1 H372
<b>• Cristobalite</b>	10% - 30%			
CAS-No.	14464-46-1	EC-No.	238-455-4	
Specific Target Organ Toxicity - Repeated exposure (inhalation, Lungs)				Category 1 H372
<b>• magnesium oxide</b>	5% - 15%			
CAS-No.	1309-48-4	EC-No.	215-171-9	
<b>• ammonium dihydrogene-orthophosphate</b>	5% - 15%			
CAS-No.	7722-76-1	EC-No.	231-764-5	

**Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC**

<b>• Quartz (SiO<sub>2</sub>)</b>	50% - 70%			
CAS-No.	14808-60-7	EC-No.	238-878-4	
	Xn			
	R48/20			
<b>• Cristobalite</b>	10% - 30%			
CAS-No.	14464-46-1	EC-No.	238-455-4	
	Xn			
	R48/20			
<b>• magnesium oxide</b>	5% - 15%			
CAS-No.	1309-48-4	EC-No.	215-171-9	
<b>• ammonium dihydrogene-orthophosphate</b>	5% - 15%			
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Texts of H phrases, see in Chapter 16

See chapter 16 for text of risk phrases

**4. First aid measures****4.1. Description of first aid measures****Inhalation**

Upon formation of vapours/fumes (ammonia/):  
Remove to fresh air.

In case product dust is released:  
Remove to fresh air.

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Possible discomfort:

Irritation and on occasion caustic effects to the mucous membranes (eyes, respiratory channels) are to be expected from local contact.

In case of complaints:

Consult a physician.

### **Skin contact**

Wash off with soap and water.

### **Eye contact**

Following eye contact with ammonia - vapour

In case of complaints:

Rinse thoroughly with plenty of water keeping eyelid open.

Consult an ophthalmologist.

In case product dust is released:

Possible discomfort is due to foreign substance effect.

Rinse thoroughly with plenty of water keeping eyelid open.

If eye irritation persists, consult a specialist.

### **Ingestion**

No hazards which require special first aid measures.

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

### **Symptoms**

None known

### **Hazards**

None known

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

Symptomatic treatment.

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## **5. Fire-fighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media: All extinguishing substances suitable.

### **5.2. Special hazards arising from the substance or mixture**

ammonia forms if heated above 200 °C.

The product itself does not burn.

### **5.3. Advice for firefighters**

Extinction measures are to be adjusted to the specific location.

Employ protective equipment commonly used in the event of fire.

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## **6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

In case of release dust:

As a rule, work only with respiratory protective equipment.

### **6.2. Environmental precautions**

Introduction into soil, natural water bodies or sewerage must be prevented.

### **6.3. Methods and material for containment and cleaning up**

Use mechanical handling equipment.

### **6.4. Reference to other sections**

Wear personal protective equipment; see section 8.

Disposal considerations; see section 13.

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## **7. Handling and storage**

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**7.1. Precautions for safe handling**

In case of release dust:

As a rule, work only with respiratory protective equipment. In case of release vapours:

As a rule, work only with respiratory protective equipment. If necessary: Local ventilation. Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Storage**

Keep in a dry, cool place.

Keep container tightly closed.

Use open containers immediately.

**German storage class**

13 - Non Combustible Solids

**7.3. Specific end use(s)**

We are unaware of any specific end uses which go beyond the data reported in Section 1.

**8. Exposure controls/personal protection****8.1. Control parameters**

• Quartz (SiO <sub>2</sub> )			
CAS-No.	14808-60-7	EC-No.	238-878-4
Control parameters	0.1 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Respirable.		
• Cristobalite			
CAS-No.	14464-46-1	EC-No.	238-455-4
Control parameters	0.1 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Respirable.		
• magnesium oxide			
CAS-No.	1309-48-4	EC-No.	215-171-9
Control parameters	4 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Respirable dust and/or fume.		
Control parameters	10 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Inhalable dust.		

**8.2. Exposure controls****Engineering measures**

Ensure suitable suction/aeration at the work place and with operational machinery. Avoid formation of dust.

**Personal protective equipment****Respiratory protection**

If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used., If workplace exposure limit is exceeded apply Nose and mouth mask with P3 particle filter.

**Hand protection**

No particular measures required.

**Eye protection**

Safety glasses with side-shields, If dust occurs: basket-shaped glasses

**Skin and body protection**

suitable protective clothing recommended, Avoid contaminating clothes with product., Change contaminated clothing., Wash contaminated clothing after use.

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**5 / 9****Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice., When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.

**9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

## Appearance

Form

powder

Colour

depending on staining result

Odour

almost odourless

pH

ca. 5

Melting point/range

&gt; 1500 °C

Flash point

Not combustible.

Water solubility

hardly soluble

Autoinflammability

Not capable of spontaneous combustion or heating.

**9.2. Other information**

Bulk density

1100 - 1200 kg/m<sup>3</sup>

Other information

No further physicochemical data were determined.

**10. Stability and reactivity****10.1. Reactivity**

no data available

**10.2. Chemical stability**

The product is chemically stable.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions

Risk of decomposition when exposed to heat.

ammonia forms if heated above 200 °C.

**10.4. Conditions to avoid**

No dangerous reaction known under conditions of normal use.

**10.5. Incompatible materials**

humidity, Water

**10.6. Hazardous decomposition products**

ammonia

**11. Toxicological information****11.1. Information on toxicological effects***No results of animal experiments with the product available.*

Acute oral toxicity

no data available

Acute inhalation toxicity

no data available

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Acute dermal toxicity no data available

Skin irritation no data available

Eye irritation no data available

Sensitization no data available

Repeated dose toxicity no data available

Assessment of STOT repeat exposure

Routes of exposure: inhalation  
Target Organs: Lungs  
Labelling not required by GHS regulation., Classification and labeling of the mixture according to voluntary self-classification of respirable crystalline silica (RCS) by the Industrial Minerals Association Europe (IMA Europe).

Mutagenicity assessment no data available

Carcinogenicity No data available

Toxicity to reproduction No data available

Human experience

Mechanical irritation of skin and mucous linings of eyes and respiratory tract may occur.  
ammonia vapours:  
Irritation and on occasion caustic effects to the skin and mucous membranes (eyes, respiratory channels, in the stomach/intestinal tracts after swallowing) are to be expected from local contact.

Further information

No hazardous reactions are known if properly handled and stored., In case of improper handling: May cause silicosis.

**12. Ecological information****12.1. Toxicity**

*No ecotoxicological data is available for this product.*

**12.2. Persistence and degradability**

Biodegradability no data available

**12.3. Bioaccumulative potential**

Bioaccumulation no data available

**12.4. Mobility in soil**

Mobility No data available

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

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

**12.6. Other adverse effects**

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Further Information

Do not allow entrance in sewage water and soil.

**13. Disposal considerations****13.1. Waste treatment methods****Product**

Disposal according to local authority regulations.

**Uncleaned packaging**

Disposal according to local authority regulations.

**14. Transport information****Not dangerous according to transport regulations.**

14.1. UN number:	--
14.2. UN proper shipping name:	--
14.3. Transport hazard class(es):	--
14.4. Packing group:	--
14.5. Environmental hazards:	--
14.6. Special precautions for user:	No

**15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National legislation****15.2. Chemical safety assessment**

Chemical safety assessment No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulation is required for this product.

**16. Other information****Risk phrase (R phrase) texts**• **Quartz (SiO<sub>2</sub>)**

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

• **Cristobalite**

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**Texts of the H-phrases**• **Quartz (SiO<sub>2</sub>)**

H372 Causes damage to organs through prolonged or repeated exposure.

• **Cristobalite**

H372 Causes damage to organs through prolonged or repeated exposure.

**Further information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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**Legend**

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c.c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EC50</b>	half maximal effective concentration
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>REACH</b>	REACH registration
<b>RID</b>	Convention concerning International Carriage by Rail
<b>STOT</b>	Specific Target Organ Toxicity
<b>SVHC</b>	Substances of Very High Concern
<b>TA</b>	Technical Instructions
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances



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<b>VCI</b>	German chemical industry association
<b>vPvB</b>	very persistent, very bioaccumulative
<b>VOC</b>	volatile organic compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	Water Hazard Class
<b>WHO</b>	World Health Organization