

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

Material no.	5325520001	Version	1.11 / GB
Specification	128660	Revision date	01.02.2016
VA-Nr	01744547	Print Date	02.02.2016
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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.

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)

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 Category 1 H372
(inhalation, Lungs)

2.2. Label elements**Labelling as per (EU) 1272/2008****hazard-defining component(s) (GHS)**

- Quartz (SiO₂)
- 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**

• Quartz (SiO₂)	50% - 70%			
CAS-No.	14808-60-7	EC-No.	238-878-4	
Specific Target Organ Toxicity - Repeated exposure (inhalation, Lungs)				Category 1 H372
• Cristobalite	10% - 30%			
CAS-No.	14464-46-1	EC-No.	238-455-4	
Specific Target Organ Toxicity - Repeated exposure (inhalation, Lungs)				Category 1 H372
• magnesium oxide	5% - 15%			
CAS-No.	1309-48-4	EC-No.	215-171-9	
• ammonium dihydrogene-orthophosphate	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

• Quartz (SiO₂)	50% - 70%			
CAS-No.	14808-60-7	EC-No.	238-878-4	
	Xn			
	R48/20			
• Cristobalite	10% - 30%			
CAS-No.	14464-46-1	EC-No.	238-455-4	
	Xn			
	R48/20			
• magnesium oxide	5% - 15%			
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• ammonium dihydrogene-orthophosphate	5% - 15%			
CAS-No.	7722-76-1	EC-No.	231-764-5	

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.

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.

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.

7. Handling and storage

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4 / 9**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 ₂)			
CAS-No.	14808-60-7	EC-No.	238-878-4
Control parameters	0.1 mg/m ³		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 ³		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 ³		Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Respirable dust and/or fume.		
Control parameters	10 mg/m ³		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

> 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/m³

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 (SiO₂)**

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 (SiO₂)**

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

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

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