

**Deguvest SR**

Material no.		Version	<b>1.3 / GB</b>
Specification	<b>142270</b>	Revision date	<b>27.02.2009</b>
VA-Nr		Print Date	<b>09.06.2009</b>
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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**
**Product information**

Trade name	:	Deguvest SR
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
Emergency telephone number	:	+49 (0)180 / 23 24-555
Use of the Substance / Preparation	:	For dental use only.

**2. HAZARDS IDENTIFICATION**
**Additional safety information for humans and the environment**

Can cause silicosis.  
 ammonia forms if heated above 200 °C.  
 ammonia Irritating to respiratory system.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**
**Information on ingredients / Hazardous components**

• <b>Quarz</b>		50% - 70%	
CAS-No.	14808-60-7	EC-No.	238-878-4
• <b>Cristobalite</b>		10% - 30%	
CAS-No.	14464-46-1	EC-No.	238-455-4
• <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

See chapter 16 for text of risk phrases

**4. FIRST AID MEASURES**
**Inhalation**

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

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.

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

**Skin contact**

Wash off immediately with plenty of 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 particular measures required.

**Notes to physician**

Specific therapy/antidote treatment: none known  
Upon formation of vapours/fumes (ammonia/):  
If required, therapy of irritative effect.  
In case product dust is released:  
Possible discomfort is due to foreign substance effect.

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**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

All extinguishing substances suitable.

**Specific hazards during fire fighting**

ammonia forms if heated above 200 °C.  
The product itself does not burn.

**Special protective equipment for fire-fighters**

Employ protective equipment commonly used in the event of fire.

**Further information**

Adapt fire extinguishing methods to site.

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

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

**Methods for cleaning up**

Use mechanical handling equipment.

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**7. HANDLING AND STORAGE****Handling****Safe handling advice**

Handle in accordance with good industrial hygiene and safety practices.

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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.

**Storage****Requirements for storage areas and containers**

Keep in a dry, cool place.

Keep container tightly closed.

Use open containers immediately.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Components with workplace control parameters**

- **Quarz**

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 exposition 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 exposition 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 exposition Respirable dust and/or fume.

Control parameters 10 mg/m<sup>3</sup>

Time Weighted Average (TWA):(EH40 WEL)

type of exposition Inhalable dust.

**Engineering measures**

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

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

If the limits at the workplace 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

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**Skin and body protection**

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

**Hygiene measures**

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

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	powder
Colour	according to the coloration
Odour	almost odourless

**Safety data**

pH	ca. 5
Melting point/range	> 1500 °C
Flash point	Not combustible.
Bulk density	1100 - 1200 kg/m <sup>3</sup>
Water solubility	hardly soluble

**10. STABILITY AND REACTIVITY**

Conditions to avoid	No dangerous reaction known under conditions of normal use.
Materials to avoid	humidity, water
Hazardous decomposition products	ammonia
Hazardous reactions	Risk of decomposition when exposed to heat. ammonia forms if heated above 200 °C.

**11. TOXICOLOGICAL INFORMATION**

*No results of animal experiments with the product available.*

Further information	No dangerous reactions are known to occur with correct handling and storage. In case of improper handling: May cause silicosis.
Human experience	Mechanical irritation of skin and mucous linings of eyes and respiratory tract may occur.  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.

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related to substance: ammonia vapours:

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**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)****Behaviour in environmental compartments****Ecotoxicity effects***No ecotoxicological studies are available.*

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**13. DISPOSAL CONSIDERATIONS****Product**

Disposal according to local authority regulations.

**Uncleaned packaging**

Disposal according to local authority regulations.

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**14. TRANSPORT INFORMATION****Transport/further information**

Not classified as dangerous in the meaning of transport regulations.

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**15. REGULATORY INFORMATION****Labelling according to EC Directives**

Other data	According to the Dangerous Preparations Directive (1999/45/EG): no labelling
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**National legislation**

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**16. OTHER INFORMATION****Risk phrase (R phrase) texts****Further information**

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.