

SAFETY DATA SHEET (EC 1907/2006)**DeguDent**

A Dentsply International Company

Degubond 4

| | | | |
|---------------|---------------|---------------|-------------------|
| Material no. | | Version | 1.3 / GB |
| Specification | 102764 | Revision date | 28.02.2008 |
| VA-Nr | | Print Date | 09.06.2009 |
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name : Degubond 4

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**

|| When melting, soldering and grinding:
Do not breathe Dusts and vapours:.

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

| | | | |
|--------------------|-----------|--------|-----------|
| ● Gold | | 49.6% | |
| CAS-No. | 7440-57-5 | EC-No. | 231-165-9 |
| ● Palladium | | 29.0% | |
| CAS-No. | 7440-05-3 | EC-No. | 231-115-6 |
| ● Iridium | | 0.1% | |
| CAS-No. | 7439-88-5 | EC-No. | 231-095-9 |
| ● silver | | 17.5% | |
| CAS-No. | 7440-22-4 | EC-No. | 231-131-3 |
| ● Tin | | 3.0% | |
| CAS-No. | 7440-31-5 | EC-No. | 231-141-8 |
| ● Gallium | | 0.5% | |
| CAS-No. | 7440-55-3 | EC-No. | 231-163-8 |
| ● Rhenium | | 0.2% | |
| CAS-No. | 7440-15-5 | EC-No. | 231-124-5 |
| ● Tantal | | 0.1% | |
| CAS-No. | 7440-25-7 | EC-No. | 231-135-5 |

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See chapter 16 for text of risk phrases

4. FIRST AID MEASURES**Inhalation**

- || Dusts and vapours:
Remove to fresh air.

Eye contact

- || Dusts and vapours:
Rinse thoroughly with plenty of water keeping eyelid open.
If eye irritation persists, consult a specialist.

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

- || All extinguishing substances suitable.

Specific hazards during fire fighting

- || 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.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

- || No special precautions required.

Methods for cleaning up

- || Use mechanical handling equipment.

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

- || Do not breathe dust.
Local ventilation.
No particular measures required if used correctly.
If occurs dust / vapour: Wear personal protective equipment

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

- | | | | |
|--------------------|-----------------------|--------|---|
| CAS-No. | 7440-22-4 | EC-No. | 231-131-3 |
| Control parameters | 0.1 mg/m ³ | | Time Weighted Average (TWA):(EU ELV) |
| Control parameters | 4 mg/m ³ | | Time Weighted Average (TWA):(EH40 (UK)) |

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|| type of exposition Respirable dust.**||** Control parameters 10 mg/m³Time Weighted Average (TWA):(EH40
(UK))**||** type of exposition Total inhalable dust.**||** Control parameters 0.1 mg/m³Time Weighted Average (TWA):(EH40
WEL)• **Tin**

CAS-No. 7440-31-5

EC-No. 231-141-8

|| Control parameters 2 mg/m³

Time Weighted Average (TWA):(EU ELV)

|| Control parameters 4 mg/m³Time Weighted Average (TWA):(EH40
(UK))**||** type of exposition Respirable dust.**||** Control parameters 10 mg/m³Time Weighted Average (TWA):(EH40
(UK))**||** type of exposition Total inhalable dust.• **Tantal**

CAS-No. 7440-25-7

EC-No. 231-135-5

|| Control parameters 4 mg/m³Time Weighted Average (TWA):(EH40
(UK))**||** type of exposition Respirable dust.**||** Control parameters 10 mg/m³Time Weighted Average (TWA):(EH40
(UK))**||** type of exposition Total inhalable dust.**||** Control parameters 5 mg/m³Time Weighted Average (TWA):(EH40
WEL)**||** Control parameters 10 mg/m³Short Term Exposure Limit (STEL):(EH40
WEL)**Engineering measures****||** When melting, soldering and grinding:
|| Local ventilation.**Personal protective equipment****Respiratory protection****||** If workplace exposure limit is exceeded apply Dust mask with P2 particle filter.**Hand protection****||** No special protective equipment required.**Eye protection****||** Safety glasses with side-shields**Skin and body protection****||** No particular measures required.**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.**||** Do not inhale fumes, dust, vapour.

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9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

| | |
|--------|-----------|
| Form | solid |
| Colour | white |
| Odour | odourless |

Safety data

| | |
|---------------------|-------------------------|
| Melting point/range | 1160 - 1280 °C |
| Density | 14.50 g/cm ³ |

10. STABILITY AND REACTIVITY

| | |
|---------------------|-----------------|
| Conditions to avoid | No restrictions |
|---------------------|-----------------|

11. TOXICOLOGICAL INFORMATION

| | |
|---------------------|--|
| Further information | No dangerous reactions are known to occur with correct handling and storage. |
|---------------------|--|

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)****Behaviour in environmental compartments****Ecotoxicity effects****Further information on ecology**

| | |
|---------------------|---|
| Further Information | Dusts and water soluble alloy types: Prevent penetration into soil, stretches of water and drainage systems. |
|---------------------|---|

13. DISPOSAL CONSIDERATIONS**Product**

| |
|------------------------------------|
| Can be used after re-conditioning. |
|------------------------------------|

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**National legislation**

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.