

**Bond-on 4**

material No.		Version	1.2
specification	102802	Revision date	02.01.2002
VA-Nr		Print Date	30.03.04
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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product information**

Trade name : Bond-on 4

Company : DeguDent GmbH  
Postfach 1364  
D-63403 Hanau

Telephone : +49 (0)6181/59-5767  
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Emergency telephone number : +49 (0)180 / 23 24-555

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

• <b>Gold</b>		1,00%	
CAS-No.	7440-57-5	EC-No.	231-165-9
• <b>platinum</b>		1,00%	
CAS-No.	7440-06-4	EC-No.	231-116-1
• <b>Palladium</b>		79,70%	
CAS-No.	7440-05-3	EC-No.	231-115-6
• <b>Ruthenium</b>		0,80%	
CAS-No.	7440-18-8	EC-No.	231-127-1
• <b>copper</b>		5,00%	
CAS-No.	7440-50-8	EC-No.	231-159-6
• <b>Tin</b>		6,50%	
CAS-No.	7440-31-5	EC-No.	231-141-8
• <b>Gallium</b>		6,00%	
CAS-No.	7440-55-3	EC-No.	231-163-8

**3. HAZARDS IDENTIFICATION**

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

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

Dusts and vapours:  
Remove to fresh air.

**Eye contact**

Dusts and vapours:

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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**

none

**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**

- platinum**

CAS-No.	7440-06-4	EC-No.	231-116-1
Control parameters	5 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 OES)
	1 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EU ELV)

- copper**

CAS-No.	7440-50-8	EC-No.	231-159-6
	0,2 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 OES)
	Fume		
	1 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 OES)
	Dust and mist.		
	2 mg/m <sup>3</sup>		Short Term Exposure Limit (STEL):(EH40 OES)

**SAFETY DATA SHEET** (91/155/EWG)**DeguDent**

A Dentsply International Company

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Dust and mist.

OES)

• **Tin**CAS-No. 7440-31-5  
2 mg/m<sup>3</sup>EC-No. 231-141-8  
Time Weighted Average (TWA):(EU ELV)**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  
If dust occurs: basket-shaped glasses**Skin and body protection**

No particular measures required.

**Hygiene measures**Handle in accordance with good industrial hygiene and safety practice.  
If there is the possibility of skin/eye contact the indicated hand/eye/body protection should be used.  
If the limits at the workplace are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.  
No eating, drinking, smoking, or snuffing tobacco at work. Wash face and/or hands before break and end of work.  
Do not inhale fumes, dust, vapour.**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	solid
Colour	yellow
Odour	odourless

**Safety data**

Melting point/range	1.155 - 1.290 °C
Density	11,5 g/cm <sup>3</sup>

**10. STABILITY AND REACTIVITY**

Conditions to avoid	No restrictions
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**11. TOXICOLOGICAL INFORMATION**

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

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**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.

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

Can be used after re-conditioning.

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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 EEC Directive**

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

**National legislation**

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**16. OTHER INFORMATION****Further information**

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

The data presented here correspond to the present state of our knowledge and experience and are intended to describe our product with respect to possible safety demands. We imply with this however no guarantee of properties or description of qualities.