

BiOclus 4

Material no.		Version	1.5 / GB
Specification	102713	Revision date	18.02.2009
VA-Nr		Print Date	08.06.2009
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name	:	BiOclus 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**

Zinc oxide fumes is released during processing
When melting, soldering and grinding:
Do not breathe Dusts and vapours:.

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

• Gold		85.8%	
CAS-No.	7440-57-5	EC-No.	231-165-9
• platinum		11.0%	
CAS-No.	7440-06-4	EC-No.	231-116-1
• rhodium		0.7%	
CAS-No.	7440-16-6	EC-No.	231-125-0
• zinc		0.5%	
CAS-No.	7440-66-6	EC-No.	231-175-3
	F; R15, R17		
	N; R50, R53		
• Indium		1.7%	
CAS-No.	7440-74-6	EC-No.	231-180-0
• Tantal		0.3%	
CAS-No.	7440-25-7	EC-No.	231-135-5

See chapter 16 for text of risk phrases

4. FIRST AID MEASURES**Inhalation**

Dusts and vapours:

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Remove to fresh air.

Eye contact

Dusts and vapours:
Rinse thoroughly with plenty of water keeping eyelid open.
Consult an ophthalmologist.

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**

When melting, soldering and grinding:
Do not breathe Dusts and vapours:.
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	1 mg/m ³		Time Weighted Average (TWA):(EU ELV)
Control parameters	5 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)

- rhodium**

CAS-No.	7440-16-6	EC-No.	231-125-0
Control parameters	0.1 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
type of exposition	Fume and inhalable dust.		
Control parameters	0.3 mg/m ³		Short Term Exposure Limit (STEL):(EH40

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type of exposition	Fume and inhalable dust.			WEL)
• Indium				
CAS-No.	7440-74-6	EC-No.	231-180-0	
Control parameters	4 mg/m ³			Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Respirable dust.			
Control parameters	10 mg/m ³			Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Total inhalable dust.			
Control parameters	0.1 mg/m ³			Time Weighted Average (TWA):(EH40 WEL)
Control parameters	0.3 mg/m ³			Short Term Exposure Limit (STEL):(EH40 WEL)
• Tantal				
CAS-No.	7440-25-7	EC-No.	231-135-5	
Control parameters	4 mg/m ³			Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Respirable dust.			
Control parameters	10 mg/m ³			Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Total inhalable dust.			
Control parameters	5 mg/m ³			Time Weighted Average (TWA):(EH40 WEL)
Control parameters	10 mg/m ³			Short Term Exposure Limit (STEL):(EH40 WEL)

Engineering measures

Zinc oxide fumes is released during processing
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.

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.

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9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	solid
Colour	yellow
Odour	odourless

Safety data

Melting point/range	1040 - 1140 °C
Density	19.0 g/cm ³

10. STABILITY AND REACTIVITY

Conditions to avoid	No restrictions
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11. TOXICOLOGICAL INFORMATION

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.

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**

- **zinc**
 - R15 Contact with water liberates extremely flammable gases.
 - R17 Spontaneously flammable in air.
 - R50 Very toxic to aquatic organisms.
 - R53 May cause long-term adverse effects in the aquatic environment.

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.