1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name	:	Degudent H
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**		84.4%	
CAS-No.	7440-57-5	EC-No.	231-165-9
• **platinum**		8.0%	
CAS-No.	7440-06-4	EC-No.	231-116-1
• **Palladium**		5.0%	
CAS-No.	7440-05-3	EC-No.	231-115-6
• **Indium**		2.5%	
CAS-No.	7440-74-6	EC-No.	231-180-0
• **Tantal**		0.1%	
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:
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

- **platinum**

CAS-No.	7440-06-4	EC-No.	231-116-1
Control parameters	1 mg/m3		Time Weighted Average (TWA):(EU ELV)
Control parameters	5 mg/m3		Time Weighted Average (TWA):(EH40 WEL)

- **Indium**

CAS-No.	7440-74-6	EC-No.	231-180-0
Control parameters	4 mg/m3		Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Respirable dust.		
Control parameters	10 mg/m3		Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Total inhalable dust.		
Control parameters	0.1 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	0.3 mg/m3		Short Term Exposure Limit (STEL):(EH40

WEL)

- **Tantal**

CAS-No.	7440-25-7	EC-No.	231-135-5
Control parameters	4 mg/m3		Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Respirable dust.		
Control parameters	10 mg/m3		Time Weighted Average (TWA):(EH40 (UK))
type of exposition	Total inhalable dust.		
Control parameters	5 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	10 mg/m3		Short 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	solid
Colour	light yellow
Odour	odourless

Safety data

Melting point/range	1100 - 1210 °C
Density	18.1 g/cm3

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.

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.