

Pors on 4

Material no.		Version	2.0 / GB
Specification	102797	Release Date	06.12.2006
VA-Nr		Print Date	19.06.2009
		Page	1 / 5

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name	:	Pors on 4
Company	:	DeguDent GmbH Postfach 1364 D-63403 Hanau
Telephone	:	+49 (0)6181/59-5767
Telefax	:	+49 (0)6181/59-5879
Emergency telephone number	:	+49 (0)180 / 23 24-555

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

• Palladium		57.8%	
CAS-No.	7440-05-3	EC-No.	231-115-6
• Ruthenium		0.2%	
CAS-No.	7440-18-8	EC-No.	231-127-1
• silver		30.0%	
CAS-No.	7440-22-4	EC-No.	231-131-3
• Tin		6.0%	
CAS-No.	7440-31-5	EC-No.	231-141-8
• zinc		2.0%	
CAS-No.	7440-66-6	EC-No.	231-175-3
	F; R15, R17		
	N; R50, R53		
• Indium		4.0%	
CAS-No.	7440-74-6	EC-No.	231-180-0

See chapter 16 for text of risk phrases

3. HAZARDS IDENTIFICATION

Zinc oxide fumes is released during processing
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:

Pors on 4

Material no.		Version	2.0 / GB
Specification	102797	Release Date	06.12.2006
VA-Nr		Print Date	19.06.2009
		Page	2 / 5

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****• 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))
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)

• Tin

CAS-No.	7440-31-5	EC-No.	231-141-8
Control parameters	2 mg/m ³		Time Weighted Average (TWA):(EU ELV)
Control parameters	4 mg/m ³		Time Weighted Average (TWA):(EH40)

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

A Dentsply International Company

Pors on 4

Material no.		Version	2.0 / GB
Specification	102797	Release Date	06.12.2006
VA-Nr		Print Date	19.06.2009
		Page	3 / 5

	type of exposition	Respirable dust.	(UK)
	Control parameters	10 mg/m3	Time Weighted Average (TWA):(EH40 (UK))
	type of exposition	Total inhalable dust.	
•	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)

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
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 practices.
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.
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	white
Odour	odourless

Safety data

Melting point/range	1175 - 1275 °C
---------------------	----------------

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

A Dentsply International Company

Pors on 4

Material no.		Version	2.0 / GB
Specification	102797	Release Date	06.12.2006
VA-Nr		Print Date	19.06.2009
		Page	4 / 5

Density 11.4 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 Annex VI (9.3), Directive 67/548/EEC hazard labelling is not required.

Pors on 4

Material no.		Version	2.0 / GB
Specification	102797	Release Date	06.12.2006
VA-Nr		Print Date	19.06.2009
		Page	5 / 5

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.