

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

A Dentsply International Company

**DWL-Lot 801**

Material no.		Version	<b>2.1 / GB</b>
Specification	<b>102836</b>	Release Date	<b>19.04.2007</b>
VA-Nr		Print Date	<b>09.06.2009</b>
		Page	<b>1 / 5</b>

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

Trade name : DWL-Lot 801

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

Use of the Substance / Preparation : For dental use only.

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

• <b>Gold</b>		80.0%	
CAS-No.	7440-57-5	EC-No.	231-165-9
• <b>nickel</b>		15.0%	
CAS-No.	7440-02-0	EC-No.	231-111-4
	Carc.Cat.3; R40 R43		
• <b>zinc</b>		5.0%	
CAS-No.	7440-66-6	EC-No.	231-175-3
	F; R15, R17 N; R50, R53		

See chapter 16 for text of risk phrases

**3. HAZARDS IDENTIFICATION**

The preparation contains: nickel  
May cause sensitization by skin contact.  
nickel oxide is released during processing.  
May cause cancer.  
Zinc oxide fumes is released during processing  
May release metal vapours when melting.  
Do not breathe Dusts and vapours:..

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

Upon formation of vapours / fumes are formed: / In case product dust is released:  
cough, sneezing, flow of tears.  
In the case of high or long-term exposure:  
Possible discomfort:

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		Page	<b>2 / 5</b>

gastro-intestinal complaints, difficulty in breathing, drop in blood pressure, cramp, fever.

Symptoms may occur with delay.

Take affected persons out into the fresh air.

In case of persistent discomfort:

Call a physician immediately.

**Skin contact**

Dusts and vapours:

Wash off immediately with soap and plenty of water.

**Eye contact**

In case product dust is released:

Rinse thoroughly with plenty of water keeping eyelid open.

In case of persistent discomfort

Consult an ophthalmologist.

**Ingestion**

Consult a physician.

**Notes to physician**

Upon formation of vapours / fumes are formed: / In case product dust is released:

In the case of high or long-term exposure:

Fever induced by metal vapours possible.

Treatment of symptoms.

after absorbing large amounts of substance:

Acceleration of gastrointestinal passage

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

All extinguishing substances suitable.

**Special protective equipment for fire-fighters**

No special protective equipment required.

**Further information**

The product itself does not burn.

Adapt fire extinguishing methods to site.

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

No special precautions required.

**Environmental precautions**

No special environmental precautions required.

**Methods for cleaning up**

Use mechanical handling equipment.

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

When melting, soldering and grinding:

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		Page	<b>3 / 5</b>

Local ventilation.  
Do not breathe Dusts and vapours.  
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**• **nickel**

CAS-No.	7440-02-0	EC-No.	231-111-4
Control parameters	0.5 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
Control parameters			Skin designation:(EH40 WEL)

Can be absorbed through the skin.

**Engineering measures**

Zinc oxide fumes is released during processing  
nickel oxide is released during processing.  
Ensure suitable suction/aeration at the work place and with operational machinery.

**Personal protective equipment****Respiratory protection**

When working without/without sufficient suction of objects:  
Respirator with P3 particle filter

**Hand protection**

protective gloves

**Eye protection**

Safety glasses with side-shields  
If fumes, dust occurs: basket-shaped glasses

**Skin and body protection**

If nickel oxide fumes occurs: Keep clothes separate. Change contaminated clothing.  
Use suitable skin protective agents before handling product. Cleanse and apply cream to skin after work. Preventive skin protection recommended.

**Hygiene measures**

If there is the possibility of skin/eye contact, the indicated hand/eye/body 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.

If the limits at the workplace are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	solid
Colour	white
Odour	odourless

**Safety data**

Melting point/range	865 - 930 °C
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		Page	<b>4 / 5</b>

Density 17.2 g/cm3

**10. STABILITY AND REACTIVITY**

Conditions to avoid	None known
Materials to avoid	None known
Hazardous decomposition products	decomposition products if heated above melting point. Metallic vapours

**11. TOXICOLOGICAL INFORMATION***No results of animal experiments with the product available.*

Sensitization	Frequent and continual skin contact can cause skin reaction (Skin sensitization quite often occurs.). related to substance: nickel
Further information	No dangerous reactions are known to occur with correct handling and storage. Nickel and nickel compounds in the form of respirable drops or dust are carcinogenic.
Human experience	To date handling this product has not been known to cause any detrimental effects.

**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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		Page	<b>5 / 5</b>

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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 EC Directives**

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

**National legislation**

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**16. OTHER INFORMATION****Risk phrase (R phrase) texts**

- **nickel**
  - R40 Limited evidence of a carcinogenic effect.
  - R43 May cause sensitization by skin contact.
- **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.