

DLV-Lot

Material no.		Version	3.0 / GB
Specification	102837	Release Date	19.04.2007
VA-Nr		Print Date	09.06.2009
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name	:	DLV-Lot
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**

• silver		27.0%	
CAS-No.	7440-22-4	EC-No.	231-131-3
• copper		38.0%	
CAS-No.	7440-50-8	EC-No.	231-159-6
• zinc		20.0%	
CAS-No.	7440-66-6	EC-No.	231-175-3
	F; R15, R17		
	N; R50, R53		
• manganese		9.5%	
CAS-No.	7439-96-5	EC-No.	231-105-1
• nickel		5.5%	
CAS-No.	7440-02-0	EC-No.	231-111-4
	Carc.Cat.3; R40		
	R43		

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:.

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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:

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

Manganese:

danger of secondary pneumonia.

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

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.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

No special precautions required.

Environmental precautions

No special environmental precautions required.

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

A Dentsply International Company

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Methods for cleaning up

Use mechanical handling equipment.

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

When melting, soldering and grinding:

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**• **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)

• **copper**

CAS-No.	7440-50-8	EC-No.	231-159-6
Control parameters	0.2 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
type of exposition	Fume.		
Control parameters	1 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
type of exposition	Inhalable dusts and mists.		
Control parameters	2 mg/m ³		Short Term Exposure Limit (STEL):(EH40 WEL)
type of exposition	Inhalable dusts and mists.		

• **nickel**

CAS-No.	7440-02-0	EC-No.	231-111-4
Control parameters	0.5 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
Control parameters			Skin designation:(EH40 WEL)
	Can be absorbed through the skin.		

• **manganese**

CAS-No.	7439-96-5	EC-No.	231-105-1
Control parameters	0.5 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	4 mg/m ³		Time Weighted Average (TWA):(EH40 (UK))

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type of exposition Respirable dust.

Control parameters 10 mg/m³Time Weighted Average (TWA):(EH40
(UK))

type of exposition Total inhalable dust.

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	680 - 840 °C
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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

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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

Risk of secondary pneumonia after inhalation of large quantities of the substance
related to substance: Manganese

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.

13. DISPOSAL CONSIDERATIONS**Product**

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

14. TRANSPORT INFORMATION**Transport/further information**

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION**Labelling according to EC Directives**

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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.

• **nickel**

R40

Limited evidence of a carcinogenic effect.

R43

May cause sensitization by skin contact.

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.