

SAFETY DATA SHEET (EC 1907/2006)**DWL-Lot 801**

Material no.	5,317,050,120	Version	2.6 / GB
Specification	102836	Revision date	30.09.2015
VA-Nr	01,739,945	Print Date	10/1/2015
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DeguDent
A Dentsply Company**1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name DWL-Lot 801
REACH Registration No.: if available listed in Chapter. 3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant applications identified For dental use only.

1.3. Details of the supplier of the safety data sheet

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@dentsply.com

1.4. Emergency telephone number

Emergency information +49 (0)180 / 23 24-555 (international)

2. Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Carcinogenicity	Category 2	H351
Specific Target Organ Toxicity - Repeated exposure	Category 1	H372
Skin Sensitisation	Category 1	H317

Classification as per Directive 67/548/EC or Directive 1999/45/EC

In accordance with Directive 1999/45/EC, the product does not need to be classified nor labelled.

2.2. Label elements**Labelling as per (EU) 1272/2008****hazard-defining component(s) (GHS)**

- nickel

Symbol(s)



Signal word Danger

Hazard statement H351 - Suspected of causing cancer.
H372 - Causes damage to organs through prolonged or repeated exposure.
H317 - May cause an allergic skin reaction.

Precautionary statement P281 - Use personal protective equipment as required.
P273 - Avoid release to the environment.
P308 + P313 - IF exposed or concerned: Get medical advice/ attention.
P302 + P352 - IF ON SKIN: Wash with plenty of water/ soap.

2.3. Other hazards

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nickel oxide is released during processing.

Zinc oxide fumes is released during processing

Possible release of metallic vapors when melted.

Dusts and vapors: Do not inhale.

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

3. Composition/information on ingredients

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

• Gold	80.0%				
CAS-No.	7440-57-5	EC-No.	231-165-9		
• nickel	15.0%				
CAS-No.	7440-02-0	EC-No.	231-111-4		
Carcinogenicity				Category 2	H351
Specific Target Organ Toxicity - Repeated exposure				Category 1	H372
Skin Sensitisation				Category 1	H317
• zinc	5.0%				
CAS-No.	7440-66-6	EC-No.	231-175-3		

Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC

• Gold	80.0%				
CAS-No.	7440-57-5	EC-No.	231-165-9		
• nickel	15.0%				
CAS-No.	7440-02-0	EC-No.	231-111-4		
				Carc.Cat.3; R40	
				R43	
				T; R48/23	
• zinc	5.0%				
CAS-No.	7440-66-6	EC-No.	231-175-3		
				N; R50/53	
				F; R15, R17	
				N; R50/53	

Texts of H phrases, see in Chapter 16

See chapter 16 for text of risk phrases

4. First aid measures

4.1. Description of first aid measures

Inhalation

Remove to fresh air.

If symptoms persist, call a physician.

Skin contact

Wash off with soap and water.

In the case of skin irritation or allergic reactions see a physician.

Eye contact

Rinse with plenty of water.

If eye irritation persists, consult a specialist.

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Ingestion

Clean mouth with water and drink afterwards plenty of water.
Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not be allowed

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Special powder against metal fire
quenching powder
dry sand
common salt

Unsuitable extinguishing media: Water
Carbon dioxide (CO₂)

5.2. Special hazards arising from the substance or mixture

In the case of fire, the following hazardous smoke fumes may be produced: nickel oxides.

5.3. Advice for firefighters

The product itself does not burn.
Extinction measures are to be adjusted to the specific location.
Prevent fire extinguishing water from contaminating surface water or the ground water system.
In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation.
Avoid breathing dust.
In case of dust being formed, provide for adequate extraction.
Ensure suitable suction/aeration at the work place and with operational machinery.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment.
Avoid dust formation.
Fill into marked, sealable containers.

6.4. Reference to other sections

Wear personal protective equipment; see section 8.
Disposal considerations; see section 13.

7. Handling and storage

7.1. Precautions for safe handling

In case of melting, soldering or grinding:
Local ventilation.
Avoid dust formation.
Dusts and vapors: Do not inhale.
In case of dust or vapor: Wear personal safety equipment
No special measures are necessary if properly handled.

7.2. Conditions for safe storage, including any incompatibilities

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Storage

No special storage conditions required.

German storage class

13 - Non Combustible Solids

7.3. Specific end use(s)

We are unaware of any specific end uses which go beyond the data reported in Section 1.

8. Exposure controls/personal protection**8.1. Control parameters**

• 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.			

8.2. Exposure controls**Engineering measures**

nickel oxide is released during processing.

Zinc oxide fumes is released during processing

In case of melting, soldering or grinding:

Adequate exhaustion / ventilation of the work site or machinery must be assured. Vacuuming of objects.

Personal protective equipment**Respiratory protection**

In case of working with / without sufficient object exhaustion:

Respirator with P3 particle filter

Hand protection

Protective gloves

Glove material butyl-rubber, Nitrile rubber, Natural Rubber/Natural latex (NR)

Eye protection

Safety glasses with side-shields

In case of smoke or dust development: goggles

Skin and body protection

If nickel oxide fumes occurs: Keep clothes separate. Change contaminated clothing.

Apply adequate skin protection agents before handling the product. Assure skin cleaning and skin care after work. Preventive skin protection is recommended.

Hygiene measures

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work.

Do not inhale smoke, dust, vapor.

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

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

Form	solid
Colour	white

Odour	odourless
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Melting point/range	865 - 930 °C
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DeguDent
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Autoinflammability Not capable of spontaneous combustion or heating.

9.2. Other information

Other information No further physicochemical data were determined.

10. Stability and reactivity**10.1. Reactivity**

no data available

10.2. Chemical stability

The product is chemically stable.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No dangerous reactions known.

10.4. Conditions to avoid

None known

10.5. Incompatible materials

None known

10.6. Hazardous decomposition productsDecomposition products occurring when heated above melting temperature
metallic vapors**11. Toxicological information****11.1. Information on toxicological effects**

Acute oral toxicity no data available

Acute inhalation toxicity no data available

Acute dermal toxicity no data available

Skin irritation no data available

Eye irritation no data available

Sensitization May cause sensitisation of susceptible persons by skin contact or by inhalation of dust.

Repeated dose toxicity no data available

Mutagenicity assessment no data available

Carcinogenicity Test substance: nickel
Suspected of causing cancer.

Toxicity to reproduction No data available

Human experience Toxic effects from handling this product are unknown as yet.

Further information No hazardous reactions are known if properly handled and stored.

12. Ecological information

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DeguDent
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No ecotoxicological data is available for this product.

12.2. Persistence and degradability

Biodegradability no data available

12.3. Bioaccumulative potential

Bioaccumulation no data available

12.4. Mobility in soil

Mobility The product is insoluble in water.
No further information available

12.5. Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6. Other adverse effects

Further Information Dusts and water-soluble forms of the alloy:
Introduction into soil, natural water bodies or sewerage must be prevented.

13. Disposal considerations**13.1. Waste treatment methods****Product**

Can be used after re-conditioning.

14. Transport information

Not dangerous according to transport regulations.

14.1. UN number:	--
14.2. UN proper shipping name:	--
14.3. Transport hazard class(es):	--
14.4. Packing group:	--
14.5. Environmental hazards:	--
14.6. Special precautions for user:	No

15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National legislation****15.2. Chemical safety assessment**

Chemical safety assessment No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulation is required for this product.

16. Other information

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Risk phrase (R phrase) texts

- nickel**

R40 Limited evidence of a carcinogenic effect.
 R43 May cause sensitisation by skin contact.
 R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.

- zinc**

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R15 Contact with water liberates extremely flammable gases.
 R17 Spontaneously flammable in air.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Texts of the H-phrases

- nickel**

H351 Suspected of causing cancer.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H317 May cause an allergic skin reaction.

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Legend

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM American Society for Testing and Materials
ATP Adaptation to Technical Progress
BCF Bioconcentration factor
BetrSichV German Ordinance on Industrial Safety and Health
c.c. closed cup
CAS Chemical Abstract Services
CESIO European Committee of Organic Surfactants and their Intermediates
ChemG German Chemicals Act
CMR carcinogenic-mutagenic-toxic for reproduction
DIN German Institute for Standardization
DMEL Derived minimum effect level
DNEL Derived no effect level
EINECS European Inventory of Existing Commercial Chemical Substances
EC50 half maximal effective concentration
GefStoffV German Ordinance on Hazardous Substances
GGVSEB German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee German ordinance for sea transportation of dangerous goods
GLP Good Laboratory Practice

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GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization