

**SAFETY DATA SHEET (EC 1907/2006)****Dentsply Universal NP-Bonder Paste**

Version: **1.4 / GB**  
Revision date: **15.11.2017**  
Issue date: **26.09.2011**  
replaces version: **1.3**  
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Material no.  
Specification **175962**  
VA-Nr **01906948**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name Dentsply Universal NP-Bonder Paste  
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)6181/59-5576  
Telefax +49 (0)6181/59-5879  
Email address SDB.Degudent-DE@dentsplysirona.com

**1.4. Emergency telephone number**

Emergency information +49 (0)6181/59-50 (This telephone number is available during office hours only.)

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

Not a hazardous mixture according to Regulation (EC) No 1272/2008.

**2.2. Label elements****Labelling as per (EU) 1272/2008**

Statutory basis Labelling not required according to EU-CLP Ordinance (1272/2008).

**2.3. Other hazards**

In case product dust is released:, Risk of infection of the lung after prolonged inhalation of dust particles.  
A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

**SECTION 3: Composition/information on ingredients****Chemical nature**

The preparation contains:, Vitreous porcelain, Pigments

**3.1. Substances**

—

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

• butane-1,4-diol		< 15%	
CAS-No.	110-63-4	EC-No.	203-786-5

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• Hexane-1,2,6-triol		> 15%	
CAS-No.	106-69-4	EC-No.	203-424-6

Texts of H phrases, see in Chapter 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Take off all contaminated clothing immediately.

##### Inhalation

Provide fresh air, seek medical advice if necessary.

##### Skin contact

Wash off with plenty of water and soap, seek medical advice if necessary.

##### Eye contact

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.  
Seek medical advice.

##### Ingestion

Clean mouth with water and drink afterwards plenty of water.  
Call a physician immediately.

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

##### Symptoms

None known

##### Hazards

None known

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

Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: dry powder  
CO2  
Alcohol-resistant foam  
water spray

#### 5.2. Special hazards arising from the substance or mixture

Hazard-determining flue gases might develop in case of fire:  
Carbon monoxide  
carbon dioxide

#### 5.3. Advice for firefighters

Fire residues should be disposed of in accordance with the regulations.  
In the event of fire, wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.  
Handle in accordance with good industrial hygiene and safety practice.

#### 6.2. Environmental precautions

Do not allow the product into the following compartments: sewage water, stretches of water, drainage systems

#### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material, e.g. inert absorbent, sand, universal binding agents.

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Dispose of absorbed material in accordance with the regulations.

### 6.4. Reference to other sections

Wear personal protective equipment; see section 8.

Disposal considerations; see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes.

Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Advice on protection against fire and explosion

Normal measures for preventive fire protection.

#### Storage

Store in original container.

Keep tightly closed in a dry, cool and well-ventilated place.

Do not store together with: oxidizing agents

#### 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.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

#### Engineering measures

Ensure suitable suction/aeration at the work place and with operational machinery.

#### Personal protective equipment

##### Hand protection

Wear protective gloves made of the following materials:.

Glove material Polychloroprene (PCP)

Material thickness 0.5 mm

Break through time > 480 min

Glove material Nitrile rubber/Nitrile latex (NBR)

Material thickness 0.35 mm

Break through time > 480 min

Glove material butyl-rubber

Material thickness 0.5 mm

Break through time > 480 min

Glove material Fluorinated rubber (FKM)

Material thickness 0.4 mm

Break through time > 480 min

Glove material Polyvinyl chloride (PVC)

Material thickness 0.5 mm

Break through time > 480 min

Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

##### Eye/face protection

Safety glasses with side-shields

##### Hygiene measures

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

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**Protective measures**

Handle in accordance with good industrial hygiene and safety practice., If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

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

Appearance	
Form	paste
Colour	depending on staining result
Odour	odourless
Odour threshold:	not applicable
pH	ca. 10 (40 g_l) (20 °C)
Melting point/range	not applicable
Preparation	
Boiling point/range	not applicable
Preparation	
Flash point	> 134 °C Components with the lowest value Information taken from reference works and the literature.
Evaporation rate	not applicable, Preparation
Flammability (solid, gas)	This product has not been classified as flammable.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	not applicable
Preparation	
Density	ca. 1.9 g/cm3 (20 °C)
Water solubility	partly soluble
Partition coefficient: n-octanol/water	no data available
Autoinflammability	Not capable of spontaneous combustion or heating.
Thermal decomposition	no data available
Viscosity, dynamic	not applicable
Preparation	
Explosiveness	no data available
Oxidizing properties	no data available

**9.2. Other information**

Other information No further physicochemical data were determined.

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

no data available

**10.2. Chemical stability**

Under normal conditions: stable.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions      Reaction with strong oxidants.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

None known

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

*No results of animal experiments with the product available.*

Acute oral toxicity      LD50 rat: 1525 mg/kg  
Test substance: butane-1,4-diol

Acute inhalation toxicity      LC50 Rat: > 5.1 mg/l / 4 h  
Test substance: butane-1,4-diol

Acute dermal toxicity      LD50 Rabbit: > 2000 mg/kg  
Test substance: butane-1,4-diol

Skin irritation      Rabbit  
not irritating  
Method: OECD Test Guideline 404  
Test substance: Hexane-1,2,6-triol

Eye irritation      Rabbit  
not irritating  
Method: OECD Test Guideline 405  
Test substance: Hexane-1,2,6-triol

Sensitization      no data available

Repeated dose toxicity      Oral Rat  
Testing period: 90 d  
NOEL: ca. 1000 mg/kg  
target organ/effect: body weight development negative  
Test substance: Hexane-1,2,6-triol  
Feeding experiments

Oral Rat  
Testing period: 2 Jahre  
NOEL: 100 mg/kg  
target organ/effect: Kidney, Liver  
Test substance: Hexane-1,2,6-triol  
Feeding experiments, chronic

Risk of aspiration toxicity      Due to the viscosity, this product does not present an aspiration hazard.

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Mutagenicity assessment	no data available
Carcinogenicity	No data available
Toxicity to reproduction	No data available
Human experience	Health injuries are not known or expected under normal use.
Further information	No hazardous reactions are known if properly handled and stored., Risk of infection of the lung after prolonged inhalation of dust particles.

**SECTION 12: Ecological information****12.1. Toxicity**

*No ecotoxicological data is available for this product.*

Toxicity to fish	LC50 Cyprinus carpio: > 1240.00 mg/l / 96 h
	Test substance: butane-1,4-diol
	Method: EC 92/69
	LC0 Cyprinus carpio: 1240 mg/l / 96 h
Toxicity in aquatic invertebrates	Test substance: butane-1,4-diol
	Method: EC 92/69
	EC50 Daphnia magna: 813 mg/l / 48 h
	Test substance: butane-1,4-diol
	Method: EC 92/69
	NOEC Daphnia magna: >= 100.00 mg/l / 504 h
	Test substance: butane-1,4-diol
	Method: OECD 202 part 2
Toxicity to algae	EC50 Desmodesmus subspicatus (green algae): > 1000.00 mg/l / 72 h
	Test substance: butane-1,4-diol
	Method: EC 92/69
	NOEC Desmodesmus subspicatus (green algae): >= 1000.00 mg/l / 72 h
Toxicity to bacteria	Test substance: butane-1,4-diol
	Method: EC 92/69
	EC 10 Pseudomonas putida / 16 h
	Test substance: butane-1,4-diol
	Method: Bringmann und Kühn, Z. Wasser Abwasser Forsch. 10, 87-98 (1977)

**12.2. Persistence and degradability**

Biodegradability	Result: 96 %
	Test substance: butane-1,4-diol
	Method: OECD 301 E
	readily biodegradable

**12.3. Bioaccumulative potential**

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Bioaccumulation no data available

**12.4. Mobility in soil**

Mobility No data 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 No data can be given because of insolubility in water.  
Do not allow entrance in sewage water and soil.

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

Disposal according to local authority regulations.

**Uncleaned packaging**

Disposal according to local authority regulations.

**SECTION 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

**SECTION 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.

**SECTION 16: Other information**

**Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)**

**Further information**

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

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**Legend**

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c.c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EC50</b>	half maximal effective concentration
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>REACH</b>	REACH registration
<b>RID</b>	Convention concerning International Carriage by Rail
<b>STOT</b>	Specific Target Organ Toxicity
<b>SVHC</b>	Substances of Very High Concern
<b>TA</b>	Technical Instructions
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances
<b>VCI</b>	German chemical industry association
<b>vPvB</b>	very persistent, very bioaccumulative



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**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