

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
Toxicity to algae	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 bacteria	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
Toxicity to bacteria	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

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
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

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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