

DD Nature ZR

Print date: 01.04.2019

Page 1 of 8

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

DD Nature ZR (Veneering porcelain; Stain & Glaze)

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

Veneering ceramic to zirconia frameworks.

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	Dental Direkt GmbH	
Street:	Industriezentrum 106-108	
Place:	D-32139 Spenge	
Telephone:	05225 - 8 63 19-0	Telefax: 05225 - 8 63 19-99
e-mail:	info@dentaldirekt.de	
Contact person:	main office	Telephone: 05225 - 8 63 19-0
Internet:	www.dentaldirekt.de	
Responsible Department:	info@dentaldirekt.de	
1.4. Emergency telephone number:	+49 (0) 761 19240 (VIZ Freiburg)	

Further Information

No information available.

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

The mixture for "Veneering porcelain" is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The classification conforms to the current EC lists, but is supplemented by information from specialist literature and company information.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

Zinc chloride

Signal word: Danger**Hazard statements**

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H410	Very toxic to aquatic life with long-lasting effects

Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of this material and its container to hazardous or special waste collection point.

2.3. Other hazards

No information available.

DD Nature ZR

Print date: 01.04.2019

Page 2 of 8



SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

No information available.

Hazardous components

Product variant	CAS No	Chemical name	Quantity
DD Nature Zr Glaze Liquid	57-55-6	Propylene glycol	≥ 90,0%
DD Nature Zr Modelling Liquid	7646-85-7	Zinc chloride  H302, H314, H410 P273, P280, P305+P351+P338, P310, P501 Danger	< 0,1%
DD Nature Zr Stains	7646-85-7	Zinc chloride  H302, H314, H410 P273, P280, P305+P351+P338, P310, P501 Danger	< 0,1%
	56-81-5	Glycerol	< 30%

Further Information

No information available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

If complaints persist: take medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

After contact with skin

Wash with plenty of water.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. If complaints persist: take medical advice.

DD Nature ZR

Print date: 01.04.2019

Page 3 of 8

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

No information available.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO₂). Water spray jet
In case of major fire and large quantities: alcohol resistant foam. Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Formation of: Gases/vapours, toxic

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.
In case of fire: Wear self-contained breathing apparatus.

Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.
Residues of fire and contaminated water have to be disposed according to the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.
Use personal protection equipment.
Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.
In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Avoid dust formation. Collect in closed and suitable containers for disposal.

6.4. Reference to other sections

See protective measures under point 7 and 8. Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

See section 8.
Avoid dust formation.
Dust deposits Take up mechanically.
In case of inadequate ventilation wear respiratory protection.

Advice on protection against fire and explosion

May form combustible dust concentrations in air.

Further information on handling

Do not eat, drink or smoke when using this product.

DD Nature ZR

Print date: 01.04.2019

Page 4 of 8

Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store in a cool dry place.
Keep/Store only in original container.
Keep container tightly closed.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.2. Exposure controls****Appropriate engineering controls**

Technical ventilation of workplace
Measures to prevent aerosol and dust generation

Protective and hygiene measures

Work in well-ventilated zones or use proper respiratory protection.
Do not breathe dust/fume/mist.
Only wear fitting, comfortable and clean protective clothing.
Wash hands before breaks and after work.
Separate storage of work clothes.

Eye/face protection

Suitable eye protection:
Dust protection eye glasses
Eye glasses with side protection
goggles

Hand protection

Tested protective gloves must be worn DIN EN 374
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
The selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. Since the product is a preparation of several substances, the resistance of glove materials is not predictable and must therefore be checked before use. Gloves must be replaced after each use and if signs of wear or perforation occur.

Skin protection

Protective clothing.

Respiratory protection

Particle filter device (DIN EN 143)
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

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

Physical state:	solid, liquid (Modelling Liquid; Glaze Liquid)
Colour:	various
Odour:	characteristic

DD Nature ZR

Print date: 01.04.2019

Page 5 of 8

Test method

pH-Value: not applicable

Changes in the physical state

Melting point: not determined
 Initial boiling point and boiling range: not determined
 Sublimation point: not determined
 Softening point: not determined
 Pour point: not determined
 Flash point: not applicable

Flammability

Solid: not determined
 Gas: not determined

Explosive properties

Non explosive.

Lower explosion limits: not determined
 Upper explosion limits: not determined
 Ignition temperature: not determined

Auto-ignition temperature

Solid: not determined
 Gas: not determined

Decomposition temperature: not determined

Oxidizing properties

No information available.

Vapour pressure: not applicable

Density: not determined

Water solubility: practically insoluble

Solubility in other solvents

No information available.

Partition coefficient: not determined

Viscosity / dynamic: not applicable

Viscosity / kinematic: not applicable

Vapour density: not applicable

Evaporation rate: not applicable

Solvent content: 0%

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Does not decompose when used for intended uses.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

DD Nature ZR

Print date: 01.04.2019

Page 6 of 8

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

DD Nature ZR

Print date: 01.04.2019

Page 7 of 8

Dispose of waste according to applicable legislation.

Contaminated packaging

Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): - - not water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

DD Nature ZR

Print date: 01.04.2019

Page 8 of 8

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association"

(IATA) ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effect concentration, 50 percent

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)