

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**DD contrast[®] (pastes, modelling liquid and glaze)**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Aids for dental technology.

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: 32139 Spenge, Germany

Telephone: +49 (0) 5225 - 8 63 19-0 Telefax: +49 (0) 5225 - 8 63 19-99
e-mail: info@dentaldirekt.de
Contact person: main office Telephone: +49 (0) 5225 - 8 63 19-0
Internet: www.dentaldirekt.de/en
Responsible Department: info@dentaldirekt.de

1.4. Emergency telephone number: +49 (0) 761 19240 (VIZ Freiburg)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

The mixture "veneering ceramics system" is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

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

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

Zinc chloride

Signal word: Hazard**Hazard statements**

H302 Harmful if swallowed.
H314 Causes severe skin burns and serious eye damage.
H410 Very toxic to aquatic organisms with long-term effects.

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
P201 Obtain special instructions before use.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

2.3. Other hazards

No information available.


SECTION 3: Composition/information on ingredients

3.1 Description

Only those substances are listed which are obligatory according to Annex II of regulation 1907/2006.

Information on other substances that may be present can be provided on request.

3.2. Mixtures

CAS: 7646-85-7 EINECS: 231-592-0	Zinc chloride		H302, H314, H410	P260, P273, P280, P303+P361+P353, P305+P351+P338, P310, P501	< 0,1%
					

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special action required.
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.

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 measure

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). 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.

Notes on fire and explosion protection

No special measures required.

Further information on handling

Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work.

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

Keep/Store only in original container.
Store cool and dry.
Keep container tightly sealed.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use

Observe user information.

SECTION 8: Exposure controls/personal protection**8.1. Exposure controls and monitoring****Protective and hygiene measures**

Observe the usual precautionary measures when handling chemicals.
Wash hands before breaks and after work.

Eye/face protection

Safety goggles.

Hand protection

Tested protective gloves must be worn: EN ISO 374

Wearing time with permanent contact: Thickness of the glove material: $\geq 0,4$ mm, Breakthrough time

(maximum wearing time): > 480 min

Wearing time with occasional contact (splashes): Thickness of the glove material: $\geq 0,1$ mm, Breakthrough

time (maximum wearing time) > 30 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection

Mouth and respiratory protection are recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form:	Solid, liquid (modelling and glazing liquid)
Colour:	various
Odour:	characteristic

Test method

pH-Value:	non applicable
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Changes in the physical state

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

Flammability

Solid:	not specified
Gas:	not specified

Explosive properties

Non explosive.	
Lower explosion limits:	not specified
Upper explosion limits:	not specified
Ignition temperature:	not specified

Auto-ignition temperature

Solid:	
Gas:	not specified
Decomposition temperature:	not specified

Oxidizing properties

No information available.

Vapour pressure:

non applicable

Density:

not specified

Water solubility:

practically insoluble

Solubility in other solvents

No information available.

Partition coefficient:

not specified

Viscosity / dynamic:

non applicable

Viscosity / kinematic:

non applicable

Vapour density:

non applicable

Evaporation rate:

non applicable

Solvent content:

non applicable

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.

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

LD/LC50 values relevant for classification: No further relevant data available.

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

Non applicable.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

Danger to drinking water if even small quantities leak into the ground.

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

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

Dispose of waste according to applicable legislation.

Disposal of uncleaned packaging and recommended cleaning agents

Disposal according to official regulations. Non-contaminated and completely empty packaging can be recycled.

Recommended cleaning agent, water with the addition of cleaning agents if necessary.

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.

UN Shipping Description**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.

UN Shipping Description:

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.

UN Shipping Description:

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.

UN Shipping Description

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.

14.5 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 EU directive

Details on the IE directive 2010/75/EU

(VOC): 310 g/l

Details on the VOC directive

2004/42/EG: 310 g/l

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)

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) CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50% EL50:
Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern

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.)