

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Revision:03

Revision Date: 22.08.2024

Print Date : 05.09.2014



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Zenit - Nano Ceramic Composite

Details of the supplier of the safety data sheet

Company Name: President Dental GmbH

Street: Kesselbodenstrasse 5

Zip-Code / Town/ Country: 85391 , Allershausen, Germany

Contact for technical information: +49 (0) 230 39228772

Phone / Fax / E-Mail: +49 (0) 8166 389 9 820 / +49 (0) 8166 389 9 821 / info@presidentdental.com

1.2. Emergency Telephone Number

+49 (0) 8166 389 9 820 (8.00 am – 4.30 pm Mon-Fri)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008	The product is not classified according to the CLP regulation.
Classification according to Directive 67/548/EEC or Directive 1999/45/EC	Not applicable
Information concerning particular hazards for human and environment:	The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Classification system:	The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label Elements

Labelling according to Regulation (EC) No 1984/2012	Void
Hazard pictograms	Void
Signal word	Void
Hazard statements	Void

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Other hazards

PBT: *Not applicable.*

vPvB: *Not applicable.*

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical Name

- 1,4-Butandiol dimethacrylate
- Urethane dimethacrylate
- Bis-GMA

· Dangerous components: Void

· Additional information For the wording of the listed risk phrases refer to section 16

SECTION 4: First aid measures

4.1. Description of First Aid Measures

General information	No special measures required.
After inhalation	Supply fresh air; consult doctor in case of complaints.
After skin contact	If skin irritation continues, consult a doctor.
After eye contact	Rinse opened eye for several minutes under running water.
After swallowing	If symptoms persist consult doctor.

4.2. Most Important Symptoms and effects, both acute and delayed

Inhalation:	No further relevant information available.
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4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Fire Fighting Measures

5.1. Extinguishing media

· Suitable extinguishing agents

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Foam

Fire-extinguishing powder

Water haze

Carbon dioxide

• 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

• 5.3 Advice for firefighters

• **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not required.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling No special measures required.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage

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Requirements to be met by storerooms and receptacles:	Storage between 10 °C and 25 °C. Close container immediately after use and protect product from light incidence.
Information about storage in one common storage facility:	Store away from foodstuffs.
Further information about storage conditions:	None.

· 7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

8.1. Control Parameters

Ingredients with limit values that require monitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information:	The lists valid during the making were used as basis.

8.2. Exposure controls

Personal protective equipment General protective and hygienic measures	The usual precautionary measures are to be adhered to when handling chemicals.
Respiratory protection:	Not required.
Protection of hands:	Protective gloves.
Material of gloves	Butyl rubber, BR
Penetration time of glove material	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection:	Goggles recommended during refilling.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties.

Form	Pasty
Colour	According to product specification
Odour	Weak, characteristic
Odour threshold	Not determined
Ph Value	Not determined
Melting Point	Undetermined
Boiling point/Boiling range	101 °C
Flash point	101 °C
Flammability (solid, gaseous)	Not applicable
Ignition temperature	
Decomposition temperature	Not determined
Self-igniting	Product is not selfigniting
Danger of explosion	Product does not present an explosion hazard
Explosion limits	
Lower:	Not determined
Upper:	Not determined
Vapour pressure	Not determined
Density at 20 °C	2.1 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix
Partition coefficient (n-octanol/water):	Not determined
Dynamic Viscosity	Not determined
Kinematic Viscosity	Not determined
Organic Solvents	0.0 %

9.2. Other Information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2. Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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10.3. Possibility of hazardous reactions

Photoreactive

Danger of polymerization

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

In presence of radical formers (e. g. peroxides), deoxidizing substances, and/or heavy metal ions, polymerization with heat release is possible.

10.6. Hazardous decomposition products

No dangerous decomposition products known

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	
Primary irritant effect:	
on the skin:	No irritant effect.
on the eye:	No irritant effect.
Sensitization:	No sensitizing effects known.
Additional toxicological information:	The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity: No further relevant information available.

12.2. Persistence and degradability

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No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in Soil

No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

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

12.5. Results of PBT and vPvB Assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerationsSubstance / Preparation:

13.1 Waste treatment methods

Recommendation	Must be specially treated adhering to official regulations.
European waste catalogue	
08 04 12	adhesive and sealant sludges other than those mentioned in 08 04 11
Uncleaned packaging:	
Recommendation:	Packagings that may not be cleansed are to be disposed of in the same manner as the product.
Recommended cleansing agents:	Acetone

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SECTION 14: Transport information

14.1. UN Number ADR, ADN, IMDG, IATA

Void

14.2. UN Proper Shipping Name ADR, ADN, IMDG, IATA

Void

14.3. Transport Hazard Class(es) ADR, ADN, IMDG, IATA

· Class Void

14.4. Packing Group ADR, IMDG, IATA

Void

14.5. Environmental Hazards

Marine pollutant: No

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport/Additional information: Not dangerous according to the above specifications.

UN "Model Regulation": -

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Technical instructions (air):

Class	III
Share in %	2,5-10

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS:

F & E

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)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)