

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Revision:04

Revision Date: 22.08.2024

Print Date : 26.01.2016



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

1.1. Product identifier

Zenit Color - Nano Ceramic Composite Stain

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	Skin Sens. 1 H317 May cause an allergic skin reaction.
---	--

2.2 Label Elements

Labelling according to Regulation (EC) No 1984/2012	The product is classified and labelled according to the CLP regulation.
Hazard pictograms	 GHS07
Signal word	Warning
Hazard-determining components of labelling:	tetramethylene dimethacrylate diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide
Hazard statements	H317 May cause an allergic skin reaction.
Precautionary statements	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P321 Specific treatment (see on this label). P363 Wash contaminated clothing before reuse. P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Revision:04

Revision Date: 22.08.2024

Print Date : 26.01.2016







	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
Labelling of packages where the contents do not exceed 125 ml	

2.3. Results of PBT and vPvB assessment

PBT:	Not applicable
vPvB:	Not applicable

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical Name			
Description:	Preparation of methacryl acid ester. Urethandimethacrylate 1,4-Butandioldimethacrylate		
Dangerous components:			
CAS: 2082-81-7 EINECS: 218-218-1	tetramethylene dimethacrylate  Skin Sens. 1B, H317	10-25%	
CAS: 75980-60-8 EINECS: 278-355-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide  Repr. 2, H361f;  Aquatic Chronic 2, H411;  Skin Sens. 1B, H317	< 2,5%	
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. Immediately wash with water and soap and rinse thoroughly.
After eye contact	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing	Do not induce vomiting; call for medical help immediately.

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

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Revision:04

Revision Date: 22.08.2024

Print Date : 26.01.2016



No further relevant information available.

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

- Foam
- Fire-extinguishing powder
- Water haze
- Carbon dioxide

For safety reasons unsuitable extinguishing agents

Water with full jet.

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. Wear fully protective suit.

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).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Revision:04

Revision Date: 22.08.2024

Print Date : 26.01.2016



6.4 Reference to other sections

No dangerous substances are released.
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 :

Keep receptacles tightly sealed.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles:	Close container immediately after use and protect product from light incidence. Storage between 10 °C and 25 °C.
Information about storage in one common storage facility:	Store away from foodstuffs.
Further information about storage conditions:	Protect from heat and direct sunlight.

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	The product does not contain any relevant quantities of
--	---

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Revision:04

Revision Date: 22.08.2024

Print Date : 26.01.2016



monitoring at the workplace:	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	Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work.
Respiratory protection:	Not required.
Protection of hands:	Protective gloves.
Material of gloves	Butyl rubber, BR
Penetration time of glove material	0,1 - 0,2 mm Penetration time: 5 min.
Eye protection:	Goggles recommended during refilling.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties.

Form	Viscous
Colour	According to product specification
Odour	Weak, characteristic
Odour threshold	Not determined
Ph Value	Not determined
Melting Point/Melting Range	251 °C
Boiling point/Boiling range	101 °C
Flash point	101 °C
Flammability (solid, gaseous)	Not applicable.
Ignition temperature	370 °C
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	Not determined.
Relative density	Not determined.
Vapour density	Not determined.

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Revision:04

Revision Date: 22.08.2024

Print Date : 26.01.2016



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 further relevant information available.

10.2. Chemical stability

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

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

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Revision:04

Revision Date: 22.08.2024

Print Date : 26.01.2016



11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
LD/LC50 values relevant for classification:	tetramethylene dimethacrylate LD-50 oral > 5000 mg/kg (rat)
Primary irritant effect:	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	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

Aquatic toxicity: No further relevant information available.

12.2. Persistence and degradability

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.

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Revision:04

Revision Date: 22.08.2024

Print Date : 26.01.2016



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 considerations Substance / Preparation:

13.1 Waste treatment methods

Recommendation	Must be specially treated adhering to official regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.
European waste catalogue	
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09
Uncleaned packaging:	
Recommendation:	Packagings that may not be cleansed are to be disposed of in the same manner as the product.
Recommended cleansing agents:	Alcohol

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

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Revision:04

Revision Date: 22.08.2024

Print Date : 26.01.2016



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 and the IBC Code

Not applicable.

UN "Model Regulation":

Void

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX : None of the ingredients is listed.

National regulations

Technical instructions (air):

Class	III
Share in %	2,5-10

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

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Revision:04

Revision Date: 22.08.2024

Print Date : 26.01.2016



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.

Relevant phrases

H317 May cause an allergic skin reaction.
H361f Suspected of damaging fertility.
H411 Toxic to aquatic life with long lasting effects.

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 Harmonised 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
Repr. 2: Reproductive toxicity, Hazard Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
· * Data compared to the previous version altered.