



Safety Data Sheet

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ECR#27279

<i>Section 1. Identification</i>	
Domestic Product Name: Zen CP+	Part Number(s): ZENCPMT
Export Product Name: Zen CP+	ZENCPBRY
Manufacturer: Den-Mat Holdings, LLC 1017 W. Central Ave Lompoc CA 93436	Email: N/A Phone: 800-433-6628 Fax: 805-347-7928
Uses: To be used for cleaning and polishing procedures as part of a professionally- administered prophylaxis treatment. Secondly, Zen CP+ can be used for the management of tooth sensitivity, after scaling and root planning, and for tooth whitening post-care.	

<i>Section 2. Hazard(s) Identification</i>		
Appearance:	Gel / Paste	Ratings:
Classification:	Eye Irritation: 0 Skin Irritation: 0 Flammability: 0 Reactivity: 0 Environment (Air-Water-Soil): 0 Special Hazards: 0	Minimal 0 Slight 1 Moderate 2 Severe 3 Extreme 4
Signal Word:	N/A	
Hazard Information:	Hazard Statements: N/A Pictograms: N/A	
Precautionary Information:	Precautionary statements: N/A	
Other Hazards:	PBT substance: No vPvB substance: No Physical hazards: No other known hazards. Health hazards: No other known hazards. Environmental hazards: No other known hazards.	

<i>Section 3. Composition and Information for Product Ingredients</i>			
Chemical Name	CAS #	Synonyms	% W/W
Calcium magnesium phosphate	25618-23-9	N/A	N/A
NOTE: The mixture contains no hazardous substances. The mixture is an amorphous calcium magnesium phosphate material, consisting of hollow and porous spherical particles, 150 - 450 nm in diameter, mixed with glycerol. The content of nanoparticles is below 20 % (n). The mixture contains very low concentrations of heavy metals.			


<i>Section 4. First Aid Measures</i>	
Exposure Scenario	First Aid Measures
Inhalation	Inhalation not expected
Ingestion	Ingestion not expected
Skin Contact	Wash with soap and water
Eye Contact	In order to prevent eye irritation, rinse immediately with a soft or low-pressure waterjet or eye wash for at least 5 minutes. Remove contact lenses and keep eyes wide open. If symptoms of irritation occur, (intense stinging, pain, light sensitivity, poor vision) continue rinsing and call a poison center or doctor/physician.
Most important symptoms and effects, both acute and delayed	None
Note to Physician	Treat symptomatically and supportively

<i>Section 5. Fire Fighting Measures</i>	
Characteristic	Details
Flash Point	Not applicable
Suitable Extinguishing Media	The product is not flammable. Extinguishing media should be chosen according to the fire and surroundings.
Unsuitable Extinguishing Media	Waterjets are not a suitable extinguishing media when extinguishing fire from chemical products.
Unusual Fire/Explosion Hazards	None
Special Protective Equipment	Adequate protective equipment should be worn for all firefighting. Protective equipment providing total coverage and an oxygen mask is recommended. 

<i>Section 6. Accidental Release Measures</i>	
Measure	Details
Personal Precautionary Measures	Always wear gloves when handling chemical substances. Always wear resistant gloves when handling chemical substances if there is a health hazard, refer to section 8.2 Exposure Control
Environment Precautionary Measures	None
Cleaning/Absorption Measures	Specific containment is normally not necessary. Collect spills. Absorb spill with vermiculite, dry sand, or adsorbent pads and handled according to the recommendations in section 13 Disposal Considerations.

<i>Section 7. Handling and Storage</i>	
Action	Details
Handling	The employer shall identify the hazardous chemical substances, which occur or can be expected to occur in the activity. Information in this safety data sheet may comprise one of several sections in order to provide adequate instructions for safe

	handling, storage, disposal, etc. of the product. Standard industry hygiene applies. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.
Storage	Hygroscopic material. Always tightly close the container. Store dry and at room temperature. Store in a cool (< 75 °F), dry place (< 65 % rH). Shelf-life is 2 years (tentative, stability testing on-going) if kept in dry and cool place. Use contents of opened container within 3 months.

<i>Section 8. Exposure Controls and Personal Protection</i>	
Action	Details
Engineering Controls	No respiratory protection is ordinarily required under normal conditions of use and when adequate ventilation is ensured. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material, e.g. dust, refer to section 8.1.3 Risk management measures.
Respiratory Protection	Not required. With risk of exposure to the respiratory system, use a particulate.
Protective Clothing	Personal protective clothing should meet recommended standards. This is checked with the clothing supplier. Ensure that all protective clothing requirements are observed. Regular checks should be performed to ensure that protective clothing is both effective and complete. 
Eye Protection	With risk of exposure to the eyes, always wear protective glasses.
Skin Protection	Always wear gloves when handling the chemical substance. Protective gloves against chemicals and micro-organisms. For advice about suitable gloves for the type of work, period and frequency of exposure, contact the glove supplier.

Occupational Exposure Limits (OSHA)1910.1000 Table Z-1 limits for air contaminants. OSHA annotated Table Z-1.

Substance	CAS No.	Regulatory Limits			Recommended Limits	
		OSHA PEL		Cal/OSHA (as of 10/2/2019)	NIOSH REL (as of 10/18/2019)	ACGHIH 2019 TLV
		ppm	Mg/m ³	8-hour TWA STEL / C	Up to 10-hour TWA STEL / C	8-hour TWA STEL / C
Glycerin mist	56-81-5			PNOR	-	-
- Total dust			15	10 mg/m ³	-	-
- Respirable fraction			5	5 mg/m ³	-	-
C = Ceiling limit						
PNOR = Particulates Not Otherwise Regulated						
STEL = Short Term Exposure Limit						

TLV = Threshold Limit Value
TWA = Time weighted average

8.1.1 DN(M)EL / PNEC

8.1.1.1 DN(M)EL

Substance: Glycerole (CAS No 56-81-5)

Exposure - health	DN(M)EL	Exposure group	
		Workers	Others ¹
SHORT TERM EXPOSURE			
<i>Systemic effects</i>			
Skin contact	DNEL	No data	No data
Inhalation	DNEL	No data	No data
Ingestion	DNEL	N/A	No data
<i>Local effects</i>			
Skin contact	DNEL	No data	No data
Inhalation	DNEL	No data	No data
LONG TERM EXPOSURE			
<i>Systemic effects</i>			
Skin contact	DNEL	No data	No data
Inhalation	DNEL	No data	No data
Ingestion	DNEL	No data	229 mg/kg bw/day
<i>Local effects</i>			
Skin contact	DNEL	No data	No data
Inhalation	DNEL	56 mg/m ³	33 mg/m ³

1. Others: comprise include consumers and the general population.

8.1.1.2 PNEC

Substance: Glycerole (CAS No 56-81-5)

Exposure - environment	PNEC
Water (freshwater)	0.885 mg/L
Water (marine water)	0.088 mg/L
Water (intermittent releases)	No information
STP (Sewage Treatment Plant)	1 000 mg/L
Sediment (freshwater)	3.3 mg/kg sediment dw
Soil	0.141 mg/kg soil dw
Secondary poisoning	No potential for bioaccumulation

8.1.2 Monitoring

Controls of air pollution	If more than one substance occurs, or can be expected to occur in the working environment, the risk for interacting effects with increasing toxicity shall be assessed. In the assessment of exposure conditions, consideration shall be paid, not only to the concentration of air contaminants in the respiratory air, but also to the workload and to the possibility of certain substances being absorbed percutaneously. The person planning and conducting measurement
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	of air contaminants shall have sufficient knowledge for the purpose. Measurements should be taken using a method and equipment suitable for the purpose.
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8.1.3 Risk Management Measures

General recommendations	If a risk assessment has shown that there is a risk for exposure at a workplace, the work shall be arranged, conducted and followed up in such a way that the exposure will be as low as is practically possible. In order to reduce the risk, substitution shall by preference be undertaken. Where it is not reasonably practicable to prevent exposure to a substance hazardous to health, the employer shall take risk reduction measures, in order of priority: (a) The design and use of appropriate work processes, systems and engineering controls and the provision and use of suitable work equipment and materials; (b) The control of exposure at source, including adequate ventilation systems and appropriate organizational measures; (c) Where adequate control of exposure cannot be achieved by other means, the provision of suitable personal protective equipment in addition to the measures required by sub-paragraphs (a) and (b).
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<i>Section 9. Physical and Chemical Properties of Product</i>	
Characteristic	Details
Appearance	Gel / Paste
pH	8.5 -10
Specific gravity	Not applicable
Boiling point/ Boiling Range	Not applicable
Melting point/ Freezing Point	Not applicable
Flash Point	Not applicable
Flammability	Not flammable
Flammability & Explosive Limits	Not explosive
Density	1.55 +/- 0.05
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	Not applicable
Solubility	Not applicable
Odor Threshold	Not applicable
Evaporation Rate (nBuAc =1)	Not applicable
Partition coefficient	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	5000 – 20,000 mPa s

<i>Section 10. Stability and Reactivity of Product</i>	
Characteristic	Details
Reactivity/ Chemical Stability	The substance is normally not reactive but can react with specific materials refer to 10.5 Incompatible materials. Stable substance under normal and intended handling conditions and storage, e.g. temperature, pressure etc.
Hazardous Polymerization	No hazard reactions expected.
Conditions to Avoid	Heat and direct sunlight.
Incompatible Materials	Strong acids and bases
Hazardous Decomposition	N/A

<i>Section 11. Health Hazard Information</i>	
Toxicity Category	Details
Acute Oral Toxicity	Based on available data, the classification criteria are not met.
Skin Irritation	Based on available data, the classification criteria are not met.
Eye Irritation	Based on available data, the classification criteria are not met.
Inhalation	Based on available data, the classification criteria are not met.
Ingestion	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Reproductive Toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity – single exposure:	Based on available data, the classification criteria are not met.
Specific target organ toxicity – repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.
General Toxicity	For specific data for glycerol, refer to https://echa.europa.eu/sv/registration-dossier/-/registered-dossier/14481/6/1 .

<i>Section 12. Ecological Information</i>	
Characteristic	Details
Toxicity	Reference section 8.1.1.2
Degradability	Glycerol is rapidly degraded. Environmental fate is expected to be rapid.
Persistence	Not applicable for inorganic substances.
Bioaccumulation	The mixture does not contain any substances with bioaccumulation properties.
Mobility in Soil	All substances in the mixture are expected to be distributed to the water phase and mobile in soil.

<i>Section 13. Disposal of Product</i>	
Measure	Details
Disposal Methods	Before handling waste, refer to section 8 Exposure controls/Personal protection. During application, the product may have been contaminated with hazardous substances, which properties in the waste may not be the same as the original product's properties. It is therefore always the user's responsibility to classify the waste. Hazardous waste must be transported by an approved

	transporter. For regular transport of hazardous waste, the user is responsible for providing a transport document.
Disposal Container	Not to be handled as hazardous waste. All non-refillable plastic containers must be rinsed prior to recycling.
Waste Handling	Not to be handled as hazardous waste.

<i>Section 14. Transport Information</i>		
Land Transportation		
DOT (non-bulk)	DOT Shipping Name	Not applicable
	UN/NA Number	Not applicable
	Hazard Class	Not applicable
	Packing Group	Not applicable
DOT (bulk)	DOT Shipping Name	Not applicable
	UN/NA Number	Not applicable
	Hazard Class	Not applicable
	Packing Group	Not applicable

<i>Section 15. Regulatory Information</i>	
Category	Details
TSCA Inventory	Glycerol is listed on the United States TSCA inventory
OSHA	Occupational Safety and Health Administration (2017) Air Contaminants. 29 CFR 1910.1000 [82 FR 2735, January 9, 2017].
SARA Hazard Categories	Glycerol is not listed on the United States SARA
NIOSH	National Institute for Occupational Safety and Health (2019) NIOSH Pocket Guide to Chemical Hazards. Department of Health and Human Services. Centers for Disease Control and Prevention. National Institute for Occupational Safety and Health (NIOSH). Web site last accessed on October 18, 2019.
Cal/OSHA	California Division of Occupational Safety and Health (Cal/OSHA) Table AC-1, Permissible Exposure Limits (PELs), in California Code of Regulations (CCR) Title 8 Section 5155, last viewed October 2, 2019.
ACGIH	ACGIH® 2019 Threshold Limit Values for Chemical Substances in the Work Environment. Adopted by ACGIH® with Intended Changes.

<i>Section 16. Other Information</i>
Preparation and Release Date: 29 Oct 2020 ECR#27279
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