



PREVEST DENPRO LIMITED

Reg. Office : 38, Industrial Estate, Digiana, Jammu-180010, India
Unit II, EPIP, Bari Brahmana, Jammu-181133, India
Phones : +91 1923 222774, 222779, Fax : 222779
Web : www.prevestdenpro.com, E-mail : info@prevestdenpro.com

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Zitemp - Zinc Oxide Eugneol Cement

INTENDED USE: Cement for thermal insulation and temporary restoration

Company Name: Prevest Denpro Limited

Address: 38, Industrial Estate, Digiana, Jammu-180010 (India)

Tel: + 91-191-2430442

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Email: info@prevestdenpro.com

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

· **Chemical characterization**

· **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:			
CAS: 97-53-0	Eugenol	Xn, Xi, R 22-38-43	50-100%
EINECS: 202-589-1			

Additional Information: For the wording of the listed risk phrases refer to section 16

SECTION 3: HAZARDS IDENTIFICATION

· **Hazard description:**

Xn Harmful

· **Information concerning to particular hazards to man 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.

R 22 Harmful if swallowed

R 38 Irritating to skin

R 43 may cause sensitization by skin contact

· **Classification system**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

SECTION 4: FIRST AID MEASURES

· **After inhalation** Supply fresh air , consult doctor in case of complaints

· **After skin contact** : Immediately wash with water and soap and rinse thoroughly



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- **After eye contact** Rinse opened eye for several minutes under running water. if symptom persist, consult a doctor
- **After swallowing** Rinse out mouth and then drink plenty of water
Induce vomiting and call for medical help

SECTION 5: FIRE-FIGHTING MEASURES

- **Suitable extinguishing agents**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: FIRE-FIGHTING MEASURES

- **Person-related safety precautions:**
Wear protective clothing
Ensure adequate ventilation
- **Measures for environmental protection:**
Do not allow enter sewers/surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material(sand, diatomite, acid binder, universal binders, sawdust)
Dispose contaminated material as waste according to item 13 Ensure adequate ventilation

SECTION 7: HANDLING AND STORAGE

- **Handling** Product in intended for dental use only
- **Information for safe handling** : Observe normal care for working with chemicals
- **Information about fire - and explosion protection** : No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Additional information about design of technical facilities:** No further data; see item 7.

Ingredients with limit values that requires monitoring at the workplace;

1314-13-2 zinc oxide



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OEL	Short-term valure: 10 mg/m3 Long-term valure: 5 mg/m3
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· **Additional information:** The lists valid during the making were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measure are to be adhered to when handling chemicals

Respiratory protection: No necessary if room is well ventilated

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the Degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses

Body Protection: Protective work clothing

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

General Information
Form: Powder
Colour: White
Odour: Odourless
· Change in condition
Melting point/Melting range: undetermined
Boiling point/Boiling range: undetermined
· Flash point: Not Applicable
· Self-igniting: Product is not selfigniting.
· Danger of explosion: Product does not present an explosion hazard.
· Density: Not Determined
· Solubility in / Miscibility with Water: Insoluble
Solvent content
Organic solvents; 0.0%
Solid content: 100.0%

SECTION 10: STABILITY AND REACTIVITY

· **Thermal decomposition / conditions to be avoided** : No decomposition if used according



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- **Dangerous reactions**No : to specifications.
- **Dangerous decomposition products** : No dangerous reactions known
: No dangerous decomposition products known

SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute toxicity:**

LD/LC 50 value relevant for classification:		
1314-13-2 zinc oxide		
Oral	LD50	>5000 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** No Irritating effect
- **on the eye:** No Irritating effect.
- **Sensitization:** No sensitization effect known

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological effects:

Remarks: Very toxic for fish

General Notes:

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

SECTION 13: DISPOSAL CONSIDERATIONS

Product

- **Recommendation**



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION



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· Land transport ADR/RID (cross-border)



- ADR/RID class: 9 (M7) Miscellaneous dangerous substances and articles.
- Danger code (Kemler): 90
- UN-Number: 3077
- Packaging group: III
- Hazard label 9

· Maritime transport IMDG:



- IMDG Class: 9
- UN Number: 3077
- Label 9
- Packaging group: III
- EMS Number: F-A,S-F
- Marine pollutant: Yes
- Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 9
- UN/ID Number: 3077
- Label 9
- Packaging group: III
- Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)

SECTION 15: REGULATORY INFORMATION

Labelling according to EU guidelines:

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



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N Dangerous for the environment

Risk Phrases:

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

57 Use appropriate container to avoid environment contamination
60 This material and its container must be disposed of as hazardous waste

National Regulations:

Waterhazardous Class: Water hazard class 2(Self-assessment): Hazardous for water

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. The attachment of data safety sheet cover the dangers and measures to be taken when large quantities of material are released. For example due to accident during transport or storage by the dealer. For quantities of material typically used in clinical practice. Information necessary for safe use and storage of the product is given in the DFU

Relevant Phrases : 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.