

# DENTSPLY DE TREY ZINC POWDER

Chemwatch Independent Material Safety Data Sheet

Issue Date: 7-Oct-2009

C93177C

CHEMWATCH 4613-57

Version No:4

CD 2009/3 Page 1 of 4

---

## Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

---

### PRODUCT NAME

DENTSPLY DE TREY ZINC POWDER

### PRODUCT USE

Dental restorations.

Powder for zinc-phosphate cement

### SUPPLIER

Company: DENTSPLY (AUSTRALIA) PTY LTD

Address:

11- 21 Gilby Road

Mount Waverley

VIC 3149

AUSTRALIA

Telephone: 1300 55 29 29

Emergency Tel: 1300 55 29 29 (Hours of operation:

Monday - Friday 9:00 am - 5:00 pm EST; General

information only)

Fax: +61 3 9538 8260

---

## Section 2 - HAZARDS IDENTIFICATION

---

### STATEMENT OF HAZARDOUS NATURE

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.

### POISONS SCHEDULE

None

### RISK

None under normal operating conditions.

### SAFETY

None under normal operating conditions.

---

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

---

NAME	CAS RN	%
zinc oxide	1314-13-2	NotSpec
magnesium oxide	1309-48-4.	NotSpec

---

## Section 4 - FIRST AID MEASURES

---

### SWALLOWED

■ - Immediately give a glass of water.

- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

### EYE

■ If this product comes in contact with eyes:

- Wash out immediately with water.

- If irritation continues, seek medical attention.

### SKIN

■ If skin or hair contact occurs:

- Flush skin and hair with running water (and soap if available).

- Seek medical attention in event of irritation.

### INHALED

■ - If fumes or combustion products are inhaled remove from contaminated area.

- Other measures are usually unnecessary.

### NOTES TO PHYSICIAN

■ Treat symptomatically.

continued...

# DENTSPLY DE TREY ZINC POWDER

Chemwatch Independent Material Safety Data Sheet  
Issue Date: 7-Oct-2009  
C93177C

CHEMWATCH 4613-57  
Version No:4  
CD 2009/3 Page 2 of 4

---

## Section 5 - FIRE FIGHTING MEASURES

---

### EXTINGUISHING MEDIA

- - There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

### FIRE FIGHTING

- - Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves for fire only.

### FIRE/EXPLOSION HAZARD

- - Non combustible.
- Not considered a significant fire risk, however containers may burn.  
May emit corrosive fumes.

### FIRE INCOMPATIBILITY

- None known.

HAZCHEM: None

### PERSONAL PROTECTION

Glasses:  
Chemical goggles.  
Gloves:  
When handling larger quantities:  
Respirator:  
Particulate

---

## Section 6 - ACCIDENTAL RELEASE MEASURES

---

### MINOR SPILLS

- - Clean up all spills immediately.
- Avoid contact with skin and eyes.

### MAJOR SPILLS

- - Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

---

## Section 7 - HANDLING AND STORAGE

---

### PROCEDURE FOR HANDLING

- - Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.

### SUITABLE CONTAINER

- - Packaging as recommended by manufacturer.

### STORAGE INCOMPATIBILITY

- - Avoid reaction with oxidising agents.

### STORAGE REQUIREMENTS

- - Store in original containers.
- Keep containers securely sealed.

---

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

---

### EXPOSURE CONTROLS

Source	Material	TWA mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>
Australia Exposure Standards	zinc oxide (Zinc oxide (dust) (a))	10	
Australia Exposure Standards	zinc oxide (Zinc oxide (fume))	5	10
Australia Exposure Standards	magnesium oxide (Magnesium oxide (fume))	10	

continued...

# DENTSPLY DE TREY ZINC POWDER

Chemwatch Independent Material Safety Data Sheet

Issue Date: 7-Oct-2009

C93177C

CHEMWATCH 4613-57

Version No:4

CD 2009/3 Page 3 of 4

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### PERSONAL PROTECTION

#### RESPIRATOR

Particulate

#### EYE

- - Safety glasses with side shields
- Chemical goggles.

#### HANDS/FEET

- Suitability and durability of glove type is dependent on usage. Factors such as:

- frequency and duration of contact,
- chemical resistance of glove material.

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

- polychloroprene
- nitrile rubber.

#### OTHER

- No special equipment needed when handling small quantities.

#### OTHERWISE:

- Overalls.
- Barrier cream.

- - Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

#### ENGINEERING CONTROLS

- - Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.

- If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

Slightly yellow, odourless powder.

### PHYSICAL PROPERTIES

Molecular Weight: Not Applicable

Melting Range (°C): Not Applicable

Solubility in water (g/L): Not Applicable

pH (1% solution): Not Applicable

Volatile Component (%vol): Not Applicable

Relative Vapour Density (air=1): Not Applicable

Lower Explosive Limit (%): Not Applicable

Autoignition Temp (°C): Not Applicable

State: Divided Solid

Boiling Range (°C): Not Applicable

Specific Gravity (water=1): Not Available

pH (as supplied): Not Applicable

Vapour Pressure (kPa): Not Applicable

Evaporation Rate: Not Applicable

Flash Point (°C): Not Applicable

Upper Explosive Limit (%): Not Applicable

Decomposition Temp (°C): Not Available

Viscosity: Not Applicable

## Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

### CONDITIONS CONTRIBUTING TO INSTABILITY

- - Presence of incompatible materials.

- Product is considered stable.

*For incompatible materials - refer to Section 7 - Handling and Storage.*

## Section 11 - TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH EFFECTS

#### ACUTE HEALTH EFFECTS

- Not applicable.

#### TOXICITY AND IRRITATION

- Not available. Refer to individual constituents.

#### CHRONIC HEALTH EFFECTS

- Not applicable.

continued...

# DENTSPLY DE TREY ZINC POWDER

Chemwatch Independent Material Safety Data Sheet  
Issue Date: 7-Oct-2009  
C9317TC

CHEMWATCH 4613-57  
Version No:4  
CD 2009/3 Page 4 of 4

---

## Section 12 - ECOLOGICAL INFORMATION

---

No data

### Ecotoxicity

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulat ion	Mobility
Dentsply De Trey Zinc Powder		No data		
zinc oxide		No data		
magnesium oxide		No data		

---

## Section 13 - DISPOSAL CONSIDERATIONS

---

- - Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.

---

## Section 14 - TRANSPORTATION INFORMATION

---

HAZCHEM: None (ADG7)

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: ADG7, UN, IATA, IMDG

---

## Section 15 - REGULATORY INFORMATION

---

POISONS SCHEDULE: None

### REGULATIONS

Regulations for ingredients

**zinc oxide (CAS: 1314-13-2) is found on the following regulatory lists;**

"Australia Exposure Standards", "Australia Hazardous Substances", "Australia High Volume Industrial Chemical List (HVICL)", "Australia Inventory of Chemical Substances (AICS)", "Australia Therapeutic Goods Administration (TGA) Substances that may be used as active ingredients in Listed medicines", "Australia Therapeutic Goods Administration (TGA) Sunscreening agents permitted in listed products", "OECD Representative List of High Production Volume (HPV) Chemicals"

**magnesium oxide (CAS: 1309-48-4) is found on the following regulatory lists;**

"Australia Exposure Standards", "Australia Hazardous Substances", "Australia High Volume Industrial Chemical List (HVICL)", "Australia Inventory of Chemical Substances (AICS)", "Australia Therapeutic Goods Administration (TGA) Substances that may be used as active ingredients in Listed medicines", "CODEX General Standard for Food Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP", "International Council of Chemical Associations (ICCA) - High Production Volume Representative List of High Production Volume (HPV) Chemicals"

**No data for Dentsply De Trey Zinc Powder (CW: 4613-57)**

---

## Section 16 - OTHER INFORMATION

---

- Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:  
[www.chemwatch.net/references](http://www.chemwatch.net/references).

- The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

*This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.*

Issue Date: 7-Oct-2009  
Print Date: 7-Oct-2009

*This is the end of the MSDS.*