

# DENTSPLY GLASTONE 3000 DIE STONE

Chemwatch Independent Material Safety Data Sheet  
Issue Date: 1-Oct-2009  
C93177C

CHEMWATCH 4613-41  
Version No:4  
CD 2009/3 Page 1 of 4

## Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NAME

DENTSPLY GLASTONE 3000 DIE STONE

### SYNONYMS

"Calcium Sulfate Hemihydrate"

### PRODUCT USE

Die stone used in the manufacture of partial dentures.

### 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    | %   |
|-----------------|-----------|-----|
| calcium sulfate | 7778-18-9 | >60 |

## Section 4 - FIRST AID MEASURES

### SWALLOWED

- - If swallowed do NOT induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

### EYE

- - If in eyes, hold eyelids apart and flush the eye continuously with running water.
- Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

### 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.
- In case of burns:
  - Immediately apply cold water to burn either by immersion or wrapping with saturated clean cloth.
  - DO NOT remove or cut away clothing over burnt areas. DO NOT pull away clothing which has adhered to the skin as this can cause further injury.

### INHALED

- - If fumes or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.

### NOTES TO PHYSICIAN

- Treat symptomatically.

continued...

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Chemwatch Independent Material Safety Data Sheet  
Issue Date: 1-Oct-2009  
C93177C

CHEMWATCH 4613-41  
Version No:4  
CD 2009/3 Page 2 of 4

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## Section 5 - FIRE FIGHTING MEASURES

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### 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.
- Decomposition may produce toxic fumes of: sulfur oxides (SOx), calcium oxide.

### FIRE INCOMPATIBILITY

- - Avoid strong acids, acid chlorides and acid anhydrides..

HAZCHEM: None

### PERSONAL PROTECTION

Glasses:  
Chemical goggles.  
Gloves:  
General purpose rubber glove.  
Respirator:  
Particulate

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## Section 6 - ACCIDENTAL RELEASE MEASURES

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### 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.

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## Section 7 - HANDLING AND STORAGE

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### 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 strong acids, acid chlorides and acid anhydrides..

### STORAGE REQUIREMENTS

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

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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### EXPOSURE CONTROLS

| Source                       | Material                               | TWA mg/m <sup>3</sup> | Notes            |
|------------------------------|--|-----------------------|------------------|
| Australia Exposure Standards | calcium sulfate (Calcium sulphate (a)) | 10                    | (see Chapter 14) |

### PERSONAL PROTECTION

continued...

# DENTSPLY GLASTONE 3000 DIE STONE

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Issue Date: 1-Oct-2009  
C93177C

CHEMWATCH 4613-41  
Version No:4  
CD 2009/3 Page 3 of 4

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### RESPIRATOR

Particulate

### EYE

- - Safety glasses with side shields
- Chemical goggles.

### HANDS/FEET

- Wear general protective gloves, eg. light weight rubber gloves.

### OTHER

- - Overalls.
- PVC Apron.

### 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

Pink, blue, green or ivory, odourless powder; does not mix with water.

### PHYSICAL PROPERTIES

Molecular Weight: Not Applicable  
Melting Range (°C): Not Applicable  
Solubility in water (g/L): Partly Miscible  
pH (1% solution): Not Applicable  
Volatile Component (%vol): 0  
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): 2.6- 3.2  
pH (as supplied): Not Applicable  
Vapour Pressure (kPa): Not Applicable  
Evaporation Rate: Not Available  
Flash Point (°C): Not Applicable  
Upper Explosive Limit (%): Not Applicable  
Decomposition Temp (°C): 1450  
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.

#### CHRONIC HEALTH EFFECTS

- Not applicable.

### TOXICITY AND IRRITATION

- Not available. Refer to individual constituents.

#### CALCIUM SULFATE:

- unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

for dihydrate

[RTEC NO.: EW 4150000]

Inhalation (human) TCLo: 194000 mg/m<sup>3</sup>/10Y Nil reported  
-Intermittent

## Section 12 - ECOLOGICAL INFORMATION

No data

Ecotoxicity  
Ingredient

Persistence:  
Water/Soil

Persistence:  
Air

Bioaccumulat  
ion

Mobility

continued...

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CHEMWATCH 4613-41  
Version No:4  
CD 2009/3 Page 4 of 4  
Section 12 - ECOLOGICAL INFORMATION

Dentsply Glastone 3000 Die Stone  
calcium sulfate

No data  
No data

## Section 13 - DISPOSAL CONSIDERATIONS

- - Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

## 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

**calcium sulfate (CAS: 7778-18-9,10101-41-4) is found on the following regulatory lists;**

"Australia Exposure Standards", "Australia High Volume Industrial Chemical List (HVICL)", "Australia Inventory of Chemical Substances (AICS)", "Australia Therapeutic Goods Administration Substances that may be used as active ingredients in Listed medicines", "International Council of Chemical Associations (ICCA) - High Production Volume List", "OECD Representative List of High Production Volume (HPV) Chemicals"

No data for Dentsply Glastone 3000 Die Stone (CW: 4613-41)

## Section 16 - OTHER INFORMATION

### INGREDIENTS WITH MULTIPLE CAS NUMBERS

Ingredient Name  
calcium sulfate

CAS  
7778- 18- 9, 10101- 41- 4

- 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.

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*This is the end of the MSDS.*