

# DENTSPLY ISOLATION SEP

Chemwatch Independent Material Safety Data Sheet  
Issue Date: 1-Oct-2009  
C9317TC

CHEMWATCH 4613-44  
Version No:4  
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## Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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### PRODUCT NAME

DENTSPLY ISOLATION SEP

### SYNONYMS

"Material no. 5368273512"

### PROPER SHIPPING NAME

CYCLOHEXANE

### PRODUCT USE

For dental use only.

### 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

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## Section 2 - HAZARDS IDENTIFICATION

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### STATEMENT OF HAZARDOUS NATURE

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

### POISONS SCHEDULE

None

### RISK

- Highly flammable.
- Irritating to skin.
- Very toxic to aquatic organisms may cause long- term adverse effects in the aquatic environment.
- HARMFUL- May cause lung damage if swallowed.
- Vapours may cause drowsiness and dizziness.

### SAFETY

- Wear suitable protective clothing.
- Use only in well ventilated areas.
- To clean the floor and all objects contaminated by this material use water and detergent.
- This material and its container must be disposed of in a safe way.
- Keep away from food drink and animal feeding stuffs.
- If swallowed IMMEDIATELY contact Doctor or Poisons Information Centre. (show this container or label).
- Use appropriate container to avoid environmental contamination.
- Avoid release to the environment. Refer to special instructions/Safety data sheets.
- This material and its container must be disposed of as hazardous waste.

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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NAME	CAS RN	%
cyclohexane	110-82-7	NotSpec
paraffin wax	8002-74-2	NotSpec

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## Section 4 - FIRST AID MEASURES

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### SWALLOWED

- - For advice, contact a Poisons Information Centre or a doctor at once.
- Urgent hospital treatment is likely to be needed.

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Section 4 - FIRST AID MEASURES

## EYE

■ If this product comes in contact with the eyes:

- Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

## SKIN

■ If skin or hair contact occurs:

- Immediately flush body and clothes with large amounts of water, using safety shower if available.
- Quickly remove all contaminated clothing, including footwear.

## INHALED

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

- Lay patient down. Keep warm and rested.

## NOTES TO PHYSICIAN

■ Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically.

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## Section 5 - FIRE FIGHTING MEASURES

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### EXTINGUISHING MEDIA

- - Foam.
- Dry chemical powder.

### FIRE FIGHTING

- - Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.

### FIRE/EXPLOSION HAZARD

■ - Hot organic vapours or mist are capable of sudden spontaneous combustion when mixed with air even at temperatures below their published autoignition temperatures.

- The temperature of ignition decreases with increasing vapour volume and vapour/air contact times and is influenced by pressure change.
- Liquid and vapour are highly flammable.
- Severe fire hazard when exposed to heat, flame and/or oxidisers.

Combustion products include: carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), other pyrolysis products typical of burning organic material.

### FIRE INCOMPATIBILITY

- - Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

### HAZCHEM: 3YE

### Personal Protective Equipment

Breathing apparatus - high vapour/dust levels only.

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## Section 6 - ACCIDENTAL RELEASE MEASURES

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### MINOR SPILLS

- - Remove all ignition sources.
- Clean up all spills immediately.

### 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

- - Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- DO NOT allow clothing wet with material to stay in contact with skin.

### SUITABLE CONTAINER

- - Packing as supplied by manufacturer.
- Plastic containers may only be used if approved for flammable liquid.
- For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure.
- For materials with a viscosity of at least 2680 cSt. (23 deg. C).

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Section 7 - HANDLING AND STORAGE

## STORAGE INCOMPATIBILITY

- - Avoid reaction with oxidising agents.

## STORAGE REQUIREMENTS

- - Store in original containers in approved flame-proof area.
  - No smoking, naked lights, heat or ignition sources.
- Store between 15-25 deg Celcius.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE CONTROLS

Source	Material	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>
Australia Exposure Standards	cyclohexane (Cyclohexane)	100	350	300	1050
Australia Exposure Standards	paraffin wax (Paraffin wax (fume))		2		

### PERSONAL PROTECTION

#### RESPIRATOR

Type AX Filter of sufficient capacity

#### EYE

- - Safety glasses with side shields
- Chemical goggles.

#### HANDS/FEET

- - Wear chemical protective gloves, eg. PVC.
- Wear safety footwear or safety gumboots, eg. Rubber.

#### OTHER

- - Overalls.
- PVC Apron.

#### ENGINEERING CONTROLS

- For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

Colourless, highly flammable liquid with a characteristic odour; does not mix with water.

### PHYSICAL PROPERTIES

Liquid.  
Does not mix with water.  
Floats on water.

Molecular Weight: Not Applicable  
Melting Range (°C): 7 (cyclohexane)  
Solubility in water (g/L): Immiscible  
pH (1% solution): Not Applicable  
Volatile Component (%vol): Not Available  
Relative Vapour Density (air=1): >1  
Lower Explosive Limit (%): 1.2 (cyclohexane)  
Autoignition Temp (°C): 260 (cyclohexane)  
State: Liquid

Boiling Range (°C): 81 (cyclohexane)  
Specific Gravity (water=1): 0.78 (cyclohexane)  
pH (as supplied): Not Applicable  
Vapour Pressure (kPa): 1.03  
Evaporation Rate: Not Available  
Flash Point (°C): - 18 (cyclohexane)  
Upper Explosive Limit (%): 8.3 (cyclohexane)  
Decomposition Temp (°C): Not Available  
Viscosity: Not Available

## Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

### CONDITIONS CONTRIBUTING TO INSTABILITY

- - Elevated temperatures.
  - Presence of open flame.
- For incompatible materials - refer to Section 7 - Handling and Storage.

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## Section 11 - TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH EFFECTS

#### ACUTE HEALTH EFFECTS

- Irritating to skin.
- HARMFUL- May cause lung damage if swallowed.
- Vapours may cause dizziness or suffocation.
- Vapours may cause drowsiness and dizziness.

#### CHRONIC HEALTH EFFECTS

- Not applicable.

#### TOXICITY AND IRRITATION

- Not available. Refer to individual constituents.

## Section 12 - ECOLOGICAL INFORMATION

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
This material and its container must be disposed of as hazardous waste.  
Avoid release to the environment.  
Refer to special instructions/ safety data sheets.

#### Ecotoxicity

##### Ingredient

Dentsply Isolation SEP  
cyclohexane  
paraffin wax

Persistence:  
Water/Soil

Persistence:  
Air  
No data  
No data  
No data

Bioaccumulat  
ion

Mobility

## Section 13 - DISPOSAL CONSIDERATIONS

- - Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

## Section 14 - TRANSPORTATION INFORMATION



Labels Required: FLAMMABLE LIQUID  
HAZCHEM: 3YE (ADG7)

#### ADG7:

Class or division: 3  
UN No.: 1145  
Special provisions: None  
Notes: None  
Portable tanks and bulk containers - T4  
Instructions: P001, IBC02  
Packagings and IBCs -  
Packing instruction:

Subsidiary risk: None  
UN packing group: II  
Packing Instructions: None  
Limited quantities: 1 L  
Portable tanks and bulk containers - Special provisions: TP1  
Packagings and IBCs - None  
Special packing provisions:

Shipping Name: CYCLOHEXANE

#### Land Transport UNDG:

Class or division: 3  
UN No.: 1145  
Shipping Name: CYCLOHEXANE

Subsidiary risk: None  
UN packing group: II

#### Air Transport IATA:

ICAO/IATA Class: 3  
UN/ID Number: 1145  
Special provisions: None  
Shipping Name: CYCLOHEXANE

ICAO/IATA Subrisk: None  
Packing Group: II

#### Maritime Transport IMDG:

IMDG Class: 3  
UN Number: 1145  
EMS Number: F- E, S- D

IMDG Subrisk: None  
Packing Group: II  
Special provisions: None

continued...

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Section 14 - TRANSPORTATION INFORMATION

Limited Quantities: 1 L

Shipping Name: CYCLOHEXANE

## Section 15 - REGULATORY INFORMATION

**POISONS SCHEDULE: None**

### REGULATIONS

Regulations for ingredients

**cyclohexane (CAS: 110-82-7) is found on the following regulatory lists;**

"Australia Exposure Standards", "Australia Hazardous Substances", "Australia Inventory of Chemical Substances (AICS)", "Australia National Pollutant Inventory", "IMO IBC Code Chapter 17: Summary of minimum requirements", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "OECD Representative List of High Production Volume (HPV) Chemicals"

**paraffin wax (CAS: 8002-74-2,12704-91-5) is found on the following regulatory lists;**

"Australia Exposure Standards", "Australia Hazardous Substances", "Australia High Volume Industrial Chemical List (HVICL)", "IMO IBC Code Chapter 17: Summary of minimum requirements (Annex II) - List of Other Liquid Substances", "OECD Representative List of High Production Volume (HPV) Chemicals"

**No data for Dentsply Isolation SEP (CW: 4613-44)**

## Section 16 - OTHER INFORMATION

### INGREDIENTS WITH MULTIPLE CAS NUMBERS

Ingredient Name

CAS

paraffin wax

8002- 74- 2, 12704- 91- 5

■ 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.*