

# DENTSPLY DUCERA LIQUID OL

Chemwatch Independent Material Safety Data Sheet  
Issue Date: 15-Oct-2009  
C93177C

CHEMWATCH 4620-30  
Version No:6  
CD 2009/3 Page 1 of 5

## Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NAME

DENTSPLY DUCERA LIQUID OL

### PROPER SHIPPING NAME

SODIUM HYDROXIDE SOLUTION

### 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

## Section 2 - HAZARDS IDENTIFICATION

### STATEMENT OF HAZARDOUS NATURE

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

### POISONS SCHEDULE

S5

### RISK

None under normal operating  
conditions.

### SAFETY

- Do not breathe gas/fumes/vapour/spray.
- Avoid contact with skin.
- Wear eye/face protection.
- In case of contact with eyes rinse with plenty of water and contact Doctor or Poisons Information Centre.
- This material and its container must be disposed of as hazardous waste.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
sodium hydroxide	1310-73-2	<0.5
polypropylene glycol	25322-69-4	NotSpec
aromatic oil		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 the eyes:
  - Wash out immediately with fresh 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 contact occurs:
  - Immediately remove all contaminated clothing, including footwear.
  - Flush skin and hair with running water (and soap if available).

continued...

# DENTSPLY DUCERA LIQUID OL

Chemwatch Independent Material Safety Data Sheet

Issue Date: 15-Oct-2009

C9317TC

CHEMWATCH 4620-30

Version No:6

CD 2009/3 Page 2 of 5

Section 4 - FIRST AID MEASURES

## INHALED

- - If fumes or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.
- Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema.
- Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs).

## NOTES TO PHYSICIAN

- Treat symptomatically.
- for corrosives:

## BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.

---

## Section 5 - FIRE FIGHTING MEASURES

---

### EXTINGUISHING MEDIA

- - Water spray or fog.
- Foam.

### FIRE FIGHTING

- - Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.

### FIRE/EXPLOSION HAZARD

- - Combustible.
  - Slight fire hazard when exposed to heat or flame.
- Combustion products include: carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), other pyrolysis products typical of burning organic material. May emit corrosive fumes.

### FIRE INCOMPATIBILITY

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

### HAZCHEM: 2R

### PERSONAL PROTECTION

- Glasses:  
Chemical goggles.
- Gloves:  
PVC chemical resistant type.
- Respirator:  
Type ANO-P Filter of sufficient capacity

---

## Section 6 - ACCIDENTAL RELEASE MEASURES

---

### MINOR SPILLS

- - Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.
- Check regularly for spills and leaks.
- Clean up all spills immediately.
- Avoid breathing vapours and 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

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

### SUITABLE CONTAINER

- - Lined metal can, lined metal pail/ can.
  - Plastic pail.
- For low viscosity materials
- Drums and jerricans must be of the non-removable head type.
  - Where a can is to be used as an inner package, the can must have a screwed enclosure.

continued...

# DENTSPLY DUCERA LIQUID OL

Chemwatch Independent Material Safety Data Sheet

Issue Date: 15-Oct-2009

C93177C

CHEMWATCH 4620-30

Version No:6

CD 2009/3 Page 3 of 5

Section 7 - HANDLING AND STORAGE

## STORAGE INCOMPATIBILITY

- - Avoid strong acids, acid chlorides and acid anhydrides..
- Avoid contact with copper, aluminium and their alloys.
- Avoid reaction with oxidising agents.
- Avoid reaction with, ammonium salts.

## STORAGE REQUIREMENTS

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

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE CONTROLS

Source	Material	Peak mg/m <sup>3</sup>
Australia Exposure Standards	sodium hydroxide (Sodium hydroxide)	2

The following materials had no OELs on our records

- polypropylene glycol:

CAS:25322- 69- 4 CAS:29434- 03- 5

### PERSONAL PROTECTION

#### RESPIRATOR

Type ANO-P 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.
- Suitability and durability of glove type is dependent on usage. Factors such as:
- frequency and duration of contact,
  - chemical resistance of glove material,

#### OTHER

- - Overalls.
- PVC Apron.

### ENGINEERING CONTROLS

- General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

Colourless alkaline liquid with a fruity odour; mixes with water.

### PHYSICAL PROPERTIES

Liquid.  
Mixes with water.  
Corrosive.

Molecular Weight: Not  
Applicable  
Specific Gravity (water=1):  
1.15  
pH (1% solution): Not Available  
Evaporation Rate: Not Available  
Lower Explosive Limit (%): Not  
Available  
Decomposition Temp (°C): Not  
Available

Boiling Range (°C): Not Available  
Solubility in water (g/L):  
Miscible  
Vapour Pressure (kPa): Not  
Applicable  
Relative Vapour Density (air=1):  
Not Available  
Upper Explosive Limit (%): Not  
Available  
State: Liquid

Mel ting Range (°C): Not  
Available  
pH (as supplied): 13 approx.  
Volatile Component (%vol): Not  
Available  
Flash Point (°C): Not Available  
Autoignition Temp (°C): Not  
Available  
Viscosity: Not Available

continued...

# DENTSPLY DUCERA LIQUID OL

Chemwatch Independent Material Safety Data Sheet  
Issue Date: 15-Oct-2009  
C93177C

CHEMWATCH 4620-30  
Version No:6  
CD 2009/3 Page 4 of 5

## 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.

#### SODIUM HYDROXIDE:

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

#### TOXICITY

#### IRRITATION

Skin (rabbit): 500 mg/24h SEVERE

Eye (rabbit): 0.05 mg/24h SEVERE

Eye (rabbit): 1 mg/24h SEVERE

Eye (rabbit): 1 mg/30s rinsed- SEVERE

- The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) thickening of the epidermis.

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound.

## Section 12 - ECOLOGICAL INFORMATION

This material and its container must be disposed of as hazardous waste.

### Ecotoxicity

#### Ingredient

Persistence:  
Water/Soil

Persistence:  
Air

Bioaccumulat  
ion

Mobility

Dentsply Ducera Liquid OL  
sodium hydroxide  
polypropylene glycol

No data  
No data  
No data

## Section 13 - DISPOSAL CONSIDERATIONS

- Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.

- DO NOT allow wash water from cleaning or process equipment to enter drains.

- It may be necessary to collect all wash water for treatment before disposal.

- 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



Labels Required: CORROSIVE  
HAZCHEM: 2R (ADG7)

### ADG7:

Class or division:

8

UN No.:

1824

Special provisions:

None

Subsidiary risk:

None

UN packing group:

II

Packing Instructions:

None

continued...

# DENTSPLY DUCERA LIQUID OL

Chemwatch Independent Material Safety Data Sheet

Issue Date: 15-Oct-2009

C9317TC

CHEMWATCH 4620-30

Version No:6

CD 2009/3 Page 5 of 5

## Section 14 - TRANSPORTATION INFORMATION

Notes:	None	Limited quantities:	1 L
Portable tanks and bulk containers -	T7	Portable tanks and bulk containers - Special provisions:	TP2
Instructions:		Packagings and IBCs -	None
Packagings and IBCs -	P001, IBC02	Special packing provisions:	
Packing instruction:			

Shipping Name: SODIUM HYDROXIDE SOLUTION

### Land Transport UNDG:

Class or division:	8	Subsidiary risk:	None
UN No.:	1824	UN packing group:	II
Shipping Name:	SODIUM HYDROXIDE SOLUTION		

### Air Transport IATA:

ICAO/IATA Class:	8	ICAO/IATA Subrisk:	None
UN/ID Number:	1824	Packing Group:	II
Special provisions:	A3		
Shipping Name:	SODIUM HYDROXIDE SOLUTION		

### Maritime Transport IMDG:

Shipping Name: SODIUM HYDROXIDE SOLUTION

## Section 15 - REGULATORY INFORMATION

### POISONS SCHEDULE: S5

### REGULATIONS

Regulations for ingredients

#### sodium hydroxide (CAS: 1310-73-2) is found on the following regulatory lists;

"Australia Exposure Standards", "Australia Hazardous Substances", "Australia High Volume Industrial Chemical List (HVICL)", "Australia Illicit Drug Reagents/Essential Chemicals - Category III", "Australia Inventory of Chemical Substances (AICS)", "Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix E (Part 2)", "Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix F (Part 3)", "Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 5", "Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 6", "CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP", "IMO IBC Code Chapter 17: Summary of minimum requirements", "International Council of Chemical Associations (ICCA) - High Production Volume List", "OECD Representative List of High Production Volume (HPV) Chemicals"

#### polypropylene glycol (CAS: 25322-69-4, 29434-03-5) is found on the following regulatory lists;

"Australia Inventory of Chemical Substances (AICS)", "IMO IBC Code Chapter 17: Summary of minimum requirements"

No data for Dentsply Ducera Liquid OL (CW: 4620-30)

## Section 16 - OTHER INFORMATION

### INGREDIENTS WITH MULTIPLE CAS NUMBERS

Ingredient Name	CAS
polypropylene glycol	25322- 69- 4, 29434- 03- 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.

*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: 15-Oct-2009

Print Date: 15-Oct-2009

*This is the end of the MSDS.*