



## **SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**GHS Product Identifier** ENDOPREP Bleach

**Company Name**

Professional Dentist Supplies Pty. Ltd. (ABN 69 088 275 576)

**Address**

3/8 Nicole Close Bayswater North, VIC 3153 Australia

**Telephone/Fax Number** Tel: +61 3 9761 6615

Fax: +61 3 9761 6566

**Emergency phone number**

+61 3 9761 6615 BH

**Recommended use of the chemical and restrictions on use**

Chelating solution containing cetrimide for softening of dentine and irrigation of root canals during endodontic procedures. Facilitate instrumentation of the root canal.

Other Names	Name	Product Code
	ENDOPREP Bleach 25 gm	34121

**Other Information**

PROFESSIONAL DENTIST SUPPLIES

Ph: 03 9761 6615 (business hours)

The information contained within this material safety data sheet (MSDS) is believed to be accurate on the date of issue and in accordance with the information provided to us. Any person handling the product referred to in this material safety data sheet do so at their own risk. Professional Dental Supplies accepts no liability whatsoever for damage or injury caused from the use of this information or of suggestions contained herein.

## **SECTION 2 - HAZARDS IDENTIFICATION SUMMARY**

**Classification of the substance or mixture**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7.5<sup>th</sup> edition)

Oxidizing Solids: Category 3

Acute Toxicity - Inhalation: Category 4 Acute Toxicity - Oral: Category

4

Eye Damage/Irritation: Category 1

STOT Single Exposure Category 3 (respiratory tract irritation) Toxic to Reproduction: Category 1

**Signal Word (s)**

Danger

**Hazard Statement (s)**

H272 May intensify fire; oxidiser. H302 Harmful if swallowed.

H318 Causes serious eye damage. H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H360 May damage fertility or the unborn child.

The sodium perborates in the group are classified as hazardous, with the following risk phrases for human health in the Hazardous Chemical Information System (HCIS) (Safe Work Australia):

Reproductive toxicity – Category 1B; H360Df (May damage the unborn child. Suspected of damaging fertility)

Specific target organ toxicity (single exposure) – Category 3; H335 (May cause respiratory irritation)

Eye damage – Category 1; H318 (Causes serious eye damage)

Additional risk phrases have also been assigned to the following chemicals:

Acute toxicity – Category 4; H332 (Harmful if inhaled)—Sodium perborate trihydrate (CAS No. 13517-20-9) and sodium perborate tetrahydrate (CAS No. 10486-00-7) containing <sup>3</sup>0.1 % (w/w) of particles with an aerodynamic diameter of below 50 micrometres.

Acute toxicity – Category 4; H302 (Harmful if swallowed)—Sodium peroxometaborate (CAS No. 7632-04-4), sodium perborate monohydrate (CAS No. 10332-33-9) and sodium peroxoborate (CAS No. 11138-47-9).

Acute toxicity – Category 3; H331 (Toxic if inhaled)—Sodium peroxometaborate (CAS No. 7632-04-4), sodium perborate monohydrate (CAS No. 10332-33-9) and sodium peroxoborate (CAS No. 11138-47-9) containing <sup>3</sup>0.1 % (w/w) of particles with an aerodynamic diameter of below 50 micrometres.

**Pictogram (s) Corrosion, Exclamation mark, Flame over circle, Health hazard**



**Precautionary statement- Prevention**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P220 Keep/Store away from clothing/combustible materials. P221 Take any precaution to avoid mixing with combustibles.

P261 Avoid breathing dust.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

**Precautionary statement – Response**

**General**

GENERAL

P308+P313 IF exposed or concerned: Get medical advice/attention. INHALATION

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell. INGESTION

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P312 Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth.

EYE

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

OTHER

P370+P378 In case of fire: Use carbon dioxide, dry chemical, foam, water mist or water spray for extinction.

**Precautionary statement – Storage Precautionary statement – Disposal**

P370+P378 In case of fire: Use carbon dioxide, dry chemical, foam, water mist or water spray for extinction.

P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

**SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS**

Ingredients	NAME	CAS	Proportion
	Sodium Perborate Tetrahydrate	10486-00-7	100%

**SECTION 4 - FIRST AID MEASURES**

Inhalation	If inhaled, remove affected person from contaminated area. Apply CPR if not breathing Seek medical attention
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.
Skin	Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.
Eye contact	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.
First aid	Eye wash station, Normal washroom facilities. Treat symptomatically.
Advice to DR.	For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126) or a doctor at once.
Other information	Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.

**SECTION 5 - FIRE FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Use appropriate fire extinguisher for surrounding environment. Use carbon dioxide, dry chemical, foam, water mist or waterspray.
<b>Hazards from Combustion Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases, including disodium oxide.
<b>Specific Hazards Arising from The Chemical</b>	A strong oxidising agent. Contact with combustible material may cause fire. Non-combustible, but will support the combustion of other materials.
<b>Decomposition Temperature</b>	Not available
<b>Precautions in connection with Fire</b>	Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location. Water spray may be used to cool down heat-exposed containers.
<b>Hazchem code</b>	1Y
<b>Precautions in connection with Fire</b>	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed containers.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Increase ventilation. Evacuate all unprotected personnel. Do not breathe dust. Wear respiratory protection and full protective clothing to minimise exposure. Sweep up material avoiding dust generation - dampen spilled material with water if suitable to avoid airborne dust, OR where possible use dustless methods such as vacuum to collect the material; then transfer material in to suitable vapour tight labelled containers for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

**IN CASE OF SPILLS OR LEAKS:** Clean up spills immediately, observing PPE precautions. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Increase ventilation. If possible, contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. As a water-based product, if spilt on electrical equipment the product will cause short-circuits. Dispose of waste according to the applicable local and national regulations. This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Minimize use of water to prevent environmental contamination

If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## **SECTION 7 - HANDLING AND STORAGE**

### **Precautions for safe handling**

Avoid inhalation of vapors and mists, and skin or eye contact. Use only in a well-ventilated area. Keep containers sealed when not in use. Prevent the buildup of mists or vapors in the work atmosphere. Use only in a well-ventilated area. Keep containers sealed when not in use. Prevent the buildup of dust in the work atmosphere. Avoid inhalation of dust, and skin or eye contact. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

### **Conditions for safe storage, including any incompatibilities**

Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations. Store in a well-ventilated area away from heat and sources of ignition, out of direct sunlight and moisture. Inspect periodically for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area.

Refer to AS 4326-2008 The storage and handling of oxidizing agents.

**Store at <30°C**

**Corrosiveness** not corrosive to aluminum

## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

### **Occupational exposure limit values**

No exposure value assigned for this material by Safe Work, Australia. However, the available exposure limits for ingredients are listed below:

### **Safe Work, Australia Exposure Standards:**

No exposure standards have been established for this material, however, the TWA (Safe Work, Australia) exposure standards for dust not otherwise specified is 10 mg/m<sup>3</sup>. TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

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STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Peak Limitation: A ceiling concentration which should not be exceeded over a measurement period which should be as

short as possible but not exceeding 15 minutes.

**Biological Limit Values**

No biological limits allocated

**Appropriate engineering controls**

Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.

**Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

**Eye Protection**

Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection**

Wear gloves of impervious material such as nitrile. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

**Body Protection**

Suitable protective workwear should be worn when working with this material, e.g. cotton overalls buttoned at neck and wrist.

Chemical resistant apron is recommended where large quantities are handled.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Properties	Description	Properties	Description
<b>Form</b>	Crystalline powder	<b>Appearance</b>	White powder
<b>Colour</b>	white	<b>Odour</b>	Not available
<b>Decomposition Temperature</b>	Not available	<b>Melting Point</b>	63°C (loses water at 130-150°C)
<b>Boiling Point</b>	100 deg C	<b>Solubility in Water</b>	Slightly Soluble
<b>Specific Gravity</b>	>1	<b>pH</b>	7.2
<b>Vapour Pressure</b>	Not available	<b>Vapour Density (Air=1)</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Odour Threshold</b>	Not available
<b>Viscosity</b>	Not available	<b>Partition Coefficient: n- octanol/water</b>	Not available
<b>Flash Point</b>	Not available	<b>Flammability</b>	Oxidiser. Non-combustible, however in fire situations oxygen may be liberated and increase the intensity of the

			fire.
<b>Auto-Ignition Temperature</b>	Not available	<b>Flammable Limits - Lower</b>	Not available
<b>Flammable Limits - Upper</b>	Not available		

**SECTION 10 - STABILITY AND REACTIVITY**

<b>Reactivity</b>	Refer to Sec 10: Possibility of hazardous reactions..
<b>Chemical Stability</b>	Stable under normal conditions of storage and handling
<b>Conditions to Avoid</b>	Dust accumulation Extremes of temperature and direct sunlight.
<b>Incompatible Materials</b>	Combustible materials
<b>Hazardous Decomposition</b>	Thermal decomposition may result in the release of toxic and/or irritating fumes including disodium oxide.
<b>Products Possibility of hazardous reactions</b>	Will react with incompatible materials.
<b>Hazardous Polymerization</b>	Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Toxicology Information**

The available acute toxicity datum for this product is given below.

**Acute Toxicity - Oral**

LD50 (Rat): 1,200mg/kg

**Ingestion**

Harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

**Inhalation**

Harmful if inhaled. May cause respiratory irritation. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system

**Skin**

May irritate to skin. The symptoms may include redness, itching and swelling. Irritating to skin. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

**Eye**

Causes eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.

**Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

**Skin Sensitisation**

Not expected to be a skin sensitiser.

**Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

**Carcinogenicity**

Not considered to be a carcinogenic hazard.

**Reproductive Toxicity**

May damage fertility or the unborn child. Classified as a Known or presumed human reproductive or developmental toxicant.

**STOT-single exposure**

Not expected to cause toxicity to a specific target organ.

**STOT-repeated exposure**

Not expected to cause toxicity to a specific target organ.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

**Other Information**

Prolonged or repeated exposure to this material may result in skin irritation leading to dermatitis. Inhalation may aggravate existing respiratory disorders.

## **SECTION 12 - ECOLOGICAL INFORMATION**

### **Ecotoxicity**

No ecological data are available for this material.

### **Persistence and degradability**

not available

### **Mobility**

Not available

### **Bio-accumulative Potential Environmental Protection**

Do not allow product to enter drains, waterways or sewers.

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

### **DISPOSAL CONSIDERATIONS**

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

## **SECTION 14 - TRANSPORT INFORMATION**

Transport Information

### **Road and Rail:**

**This material is classified as Dangerous Goods Division 5.1 Oxidising substances according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7.5 th edition).**

**Division 5.1 Dangerous Goods are incompatible in a placard load with any of the following:**

- Class 1, Explosives
- Division 2.1, Flammable Gases
- Division 2.3, Toxic Gases
- Class 3, Flammable Liquids
- Division 4.1, Flammable Solids
- Division 4.2, Spontaneously Combustible Substances
- Division 4.3, Dangerous When Wet Substances
- Some Division 5.1 Oxidising substances ( Refer Table 9.2)
- Division 5.2, Organic Peroxides
- Class 6, Toxic and Infectious Substances, if the Class 6 substance is a fire risk substance
- Class 7, Radioactive Substances
- Class 8, Corrosive Substances
- Class 9, Miscellaneous Dangerous Goods, if the Class 9 substance is a fire risk substance
- Fire risk substances
- Combustible liquids

### **Marine Transport (IMO/IMDG):**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.: 1479

Proper Shipping Name: OXIDIZING SOLID, N.O.S. (CONTAINS PERBORATE TETRAHYDRATE)

Class: 5.1

Packaging Group: III EMS No.: F-A, S-Q

Special Provision: 223, 274, 900

### **Air Transport (ICAO/IATA):**

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air. UN No.: 1479

Proper Shipping Name: OXIDIZING SOLID, N.O.S. (CONTAINS PERBORATE TETRAHYDRATE)

Class: 5.1

Packaging Group: III Label: Oxidizer

Packaging Instructions (passenger & cargo): 559 Packaging Instructions (cargo only): 563

U.N. number 1479

**UN proper shipping name**

OXIDIZING SOLID, N.O.S. - (CONTAINS PERBORATE TETRAHYDRATE)

**Transport hazard class(es)** 5.1

**Hazchem Code** 1Y

**Packaging Method** 3.8.5.1

**Packing Group** III

**EPG Number** 5B1

**IERG Number** 31

**IMDG Marine Pollutant:** no

## **SECTION 15 - REGULATORY INFORMATION**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Not Scheduled

All components of this product are listed on the Australian Inventory of Chemical Substances (AICS).

Public Risk Characterisation

The chemicals in this group have reported specialised use in cosmetic and domestic products as bleaching agents. Use in cosmetic products is subject to the *Poisons Standard* control on hydrogen peroxide; the SCCS has concluded that use in formulation up to 3 % in the final mixed product does not pose risk to consumers.

Use in domestic products for bleaching is not expected to lead to exposure via routes other than dermal contact, so systemic toxicity and respiratory irritation are not likely.

## **SECTION 16 - OTHER INFORMATION**

**DISCLAIMER:** The information presented herein is based on available data from reliable sources and is correct to the best of PDS' knowledge. PDS makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.

**References:**

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia. American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals, (GHS)



[https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-group-assessment-report?assessment\\_id=1333#cas-A\\_10486-00-7](https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-group-assessment-report?assessment_id=1333#cas-A_10486-00-7)

**REVISED DATE:** January 2019

**REFERENCE:** Revised for GHS compliance

Contact: pds@profdent.com.au

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