

Infosafe No™ 4ACMT	Issue Date : January 2014	ISSUED by PDS
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Product Name : **ISOPOL CLEAR & BLUE**

## 1. Identification

<b>GHS Product Identifier</b>	ISOPOL CLEAR & BLUE	
<b>Company Name</b>	Professional Dentist Supplies Pty. Ltd. (ABN 69 088 275 576)	
<b>Address</b>	3/8 Nicole Close Bayswater North VIC 3153 Australia	
<b>Telephone/Fax Number</b>	Tel: +61 3 9761 6615 Fax: +61 3 9730 1073	
<b>Emergency phone number</b>	+61 3 9761 6615 bh	
<b>Recommended use of the chemical and restrictions on use</b>	Antimicrobial solution/Disinfecting agent. ISOPOL is active against Gram-positive and Gram-negative bacteria. Bacterial spores are considered to be resistant. ISOPOL can be used to disinfect surfaces such as tables, trays, glass, dental bracket tables and trolleys.	
<b>Other Names</b>	<u>Name</u>	<u>Product Code</u>
	ISOPOL CLEAR (5 LITRES)	34250
	ISOPOL BLUE (5 LITRES)	34252
<b>Other Information</b>	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.	

## 2. Hazard Identification

<b>Classification of the substance or mixture</b>	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. (7th edition)
<b>Signal Word (s)</b>	Classification: Flammable Liquids: Category 2 Eye Damage/Irritation: Category 2A STOT Single Exposure Category 3 (narcotic) Danger
<b>Hazard Statement (s)</b>	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
<b>Pictogram (s)</b>	Flame, Exclamation mark



<b>Precautionary statement – Prevention</b>	P210 Keep away from heat/sparks/open flames/hot surfaces. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary statement – Response</b>	GENERAL: P370+P378 In case of fire: Use carbon dioxide, dry chemical or foam (alcohol

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resistant foam is preferred. If not available normal foam can be used) for extinction.  
 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.  
 SKIN:  
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 EYES:  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/container to an approved waste disposal plant.

**Precautionary statement – Storage**

**Precautionary statement – Disposal**

### 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	2-Propanol	67-63-0	70 %
	Ingredients determined not to be hazardous		Balance

### 4. First-aid measures

<b>Inhalation</b>	If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.
<b>Ingestion</b>	Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.
<b>Skin</b>	Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.
<b>Eye contact</b>	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. Seek medical attention.
<b>First Aid Facilities</b>	Eye wash and normal washroom facilities.
<b>Advice to Doctor</b>	Treat symptomatically.
<b>Other Information</b>	For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 11 26) or a doctor at once.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Use carbon dioxide, dry chemical or foam. Alcohol resistant foam is preferred. If not available normal foam can be used.
<b>Unsuitable Extinguishing Media</b>	Do not use water jet.
<b>Hazards from Combustion Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.
<b>Specific hazards arising from the chemical</b>	Highly flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.
<b>Hazchem Code</b>	•3YE
<b>Decomposition Temp.</b>	Not available
<b>Precautions in connection with Fire</b>	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

### 6. Accidental release measures

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

Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the 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.

## 7. Handling and storage

**Precautions for Safe Handling**

Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye exposure. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Work from suitable, labelled, fire-resistant containers. Open containers carefully as they may be under pressure. Keep containers closed when not in use. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

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

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all applicable local and national regulations.

**Corrosiveness**

Not corrosive to aluminium.

## 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:

Substance	TWA		STEL		NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
2-Propanol	400	983	500	1230	-

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.

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.

**Biological Limit Values**

Biological Exposure Indices (BEI) from American Conference of Industrial Hygienists (ACGIH) for ingredients are as follows:

Determinant	Sampling Time	(BEI)
2-PROPANOL [67-63-0]		
Acetone in urine	End of shift at end of workweek	40 mg/L

**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 flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 60079.10.1:2009 Explosive atmospheres - Classification of areas - Explosive gas atmospheres, for further information concerning ventilation requirements.

**Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS

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<b>Eye Protection</b>	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. Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
<b>Hand Protection</b>	Wear gloves of impervious material such as nitrile rubber. 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.
<b>Body Protection</b>	Suitable protective workwear should be worn when working with this material, e.g. cotton overalls buttoned at neck and wrist.

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## 9. Physical and chemical properties

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<b>Appearance</b>	Liquid
<b>Colour</b>	Clear: Clear, colourless liquid. Blue: Iridescent, light blue liquid.
<b>Odour</b>	Typical alcohol odour.
<b>Decomposition Temperature</b>	Not available
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	81 to 83°C
<b>Solubility in Water</b>	Soluble
<b>Solubility in Organic Solvents</b>	Not available
<b>Specific Gravity</b>	0.8g/mL (approximate)
<b>pH</b>	Not available
<b>Vapour Pressure</b>	33mmHg (20°C)
<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>	12°C (Closed Cup)
<b>Flammability</b>	Highly flammable
<b>Auto-Ignition Temperature</b>	Not available
<b>Flammable Limits - Lower</b>	2%
<b>Flammable Limits - Upper</b>	12%

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## 10. Stability and reactivity

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<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>	Heat, flames and other sources of ignition.
<b>Incompatible Materials</b>	Strong oxidizing agents.

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<b>Hazardous Decomposition Products</b>	Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.
<b>Possibility of hazardous reactions</b>	Will react with incompatible materials.

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## 11. Toxicological Information

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<b>Toxicology Information</b>	No toxicity data available for this material. The available toxicity data for the ingredients are given below.
<b>Acute Toxicity - Oral</b>	LD50 (Rat): 5,000 mg/kg
<b>Acute Toxicity - Dermal</b>	LD50 (Dermal): 12,800 mg/kg
<b>Acute Toxicity - Inhalation</b>	LC50 (Rat): 16,000 ppm/8H
<b>Ingestion</b>	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
<b>Inhalation</b>	May cause irritation to the mucous membrane and upper airways, especially where vapours or mists are generated. Symptoms include sneezing, coughing, wheezing, shortness of breath, headache, dizziness, drowsiness, nausea and vomiting.
<b>Skin</b>	Skin contact may cause irritation resulting in redness and itching.
<b>Eye</b>	Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
<b>Respiratory sensitisation</b>	Not expected to be a respiratory sensitiser.
<b>Skin Sensitisation</b>	Not expected to be a skin sensitiser.
<b>Germ cell mutagenicity</b>	Not considered to be a mutagenic hazard.
<b>Carcinogenicity</b>	Not considered to be a carcinogenic hazard.  2-Propanol is listed as a Group 3: Not classifiable as to its carcinogenicity to humans according to International Agency for Research on Cancer (IARC). Not considered to be toxic to reproduction.
<b>Reproductive Toxicity</b>	
<b>STOT-single exposure</b>	May cause drowsiness or dizziness.
<b>STOT-repeated exposure</b>	Not expected to cause toxicity to a specific target organ.
<b>Aspiration Hazard</b>	Not expected to be an aspiration hazard.

## 12. Ecological information

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<b>Ecotoxicity</b>	No ecological data are available for this material.
<b>Persistence and degradability</b>	Not available
<b>Mobility</b>	Not available
<b>Bioaccumulative Potential</b>	Not available
<b>Environmental Protection</b>	Do not discharge this material into waterways, drains and sewers.

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## 13. Disposal considerations

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<b>Disposal Considerations</b>	Dispose of waste according to applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Advise flammable nature.
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## 14. Transport information

<b>Transport Information</b>	<p>Road and Rail Transport (ADG Code):                  This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)                  Class 3 - Flammable Liquids are incompatible in a placard load with any of the following:                  - Class 1, Explosives                  - Division 2.1, Flammable Gases, (Division 2.1 and Class 3 are incompatible in transport if both are in tanks or other receptacles with a capacity individually exceeding 500 L.)                  - Division 2.3, Toxic Gases                  - Division 4.2 Spontaneously Combustible Substances                  - Division 5.1 Oxidising Agents and Division 5.2, Organic Peroxides                  - Class 6 Toxic or Infectious Substances (where the flammable liquid is nitromethane)                  - Class 7 Radioactive Substances.</p> <p>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.: 1993                  Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (CONTAINS 2-PROPANOL)                  Class: 3                  Packaging Group: II                  EMS No.: F-E, S-E                  Special Provision: 274</p> <p>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.: 1993                  Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (CONTAINS 2-PROPANOL)                  Class: 3                  Packaging Group: II                  Packaging Instructions (passenger &amp; cargo): 353                  Packaging Instructions (cargo only): 364                  Special Provision: A3</p>
<b>U.N. Number</b>	1993
<b>UN proper shipping name</b>	FLAMMABLE LIQUID, N.O.S. - (CONTAINS 2-PROPANOL)
<b>Transport hazard class(es)</b>	3
<b>Hazchem Code</b>	•3YE
<b>Packing Group</b>	II
<b>EPG Number</b>	3A1
<b>IERG Number</b>	14
<b>IMDG Marine pollutant</b>	No

## 15. Regulatory information

<b>Regulatory Information</b>	<p>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).</p>
<b>Poisons Schedule</b>	Not Scheduled
<b>AICS (Australia)</b>	All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted.

## 16. Other Information

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**Date of preparation or last revision of SDS** SDS Reviewed: January 2014  
Supersedes: January 2009, January 2004, February 1999

**Literature 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.

**Contact Person/Point**

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