SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GHS Product Identifier ISOPOL CLEAR & BLUE

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

Address
3/8 Nicole Close Bayswater North, VIC 3153 Australia

Telephone
+61 3 9761 6615

Emergency phone number
+61 3 9761 6615 BH

Recommended use of the chemical and restrictions on use
Antimicrobial solution/Disinfecting agent. ISOPOL is active against
Gram-postive 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.

Other Names	Name	Product Code
ISOPROPYL ALCOHOL	ISOPOL CLEAR (5 LITRES)	34250
	ISOPOL BLUE (5 LITRES)	34252

Other Information PROFESSIONAL DENTIST SUPPLIES Ph: +61 3 9761 6615 (BH)
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. (edition 7.5)
The chemical is classified as hazardous, with the following risk phrases for human health in the Hazardous Substances Information System (HSIS) (Safe Work Australia):

Xi; R36 (Irritation)

R67 (Vapours may cause drowsiness and dizziness)

Classification:

Flammable Liquids: Category 2
Eye Damage/Irritation: Category 2A
STOT Single Exposure Category 3 (narcotic)

Signal Word (s)

Danger

Hazard Statement (s)

H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Pictogram(s) Flame, Exclamation mark

Precautionary statement- Prevention

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.

Precautionary statement – Response

GENERAL:

P370+P378 In case of fire: Use carbon dioxide, dry chemical or foam (alcohol 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.

Precautionary statement –STORAGE

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.

Disposal

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

SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

Ingredients	NAME	CAS	Proportion

2-Propanol	67-63-0	70 % balance

SECTION 4 - FIRST AID MEASURES

Inhalation	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.
Skin	Remove contaminated clothing. Wash affected area thoroughly with soap and water. Wash contaminated clothing before re-use or discard. 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	Eyewash Normal washroom facilities. Treat symptomatically.
Advice to DR.	Treat symptomatically 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

Suitable Extinguishing Media	Use carbon dioxide, dry chemical or foam. Alcohol resistant foam is preferred. If not, available normal foam can be used.
Unsuitable Extinguishing Media	Do not use water jet.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide
Specific Hazards Arising from The Chemical	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
Hazchem Code	3YE
Decomposition Temperature	Not available
Precautions in connection with Fire	Fire fighters should wear full protective clothing and self- contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location. This product should be prevented from entering drains and watercourses. Water spray may be used to cool down heat-exposed containers.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILLS OR LEAKS: 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.

SECTION 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 STORAGE REGULATIONS

Not corrosive to aluminium.

STORAGE REGULATIONS & TEMPERATURES

Classified as a class C2 (combustible liquid) for the purpose of storage and handling, in accordance with the requirements of AS1940. This product should be stored and used in a well-ventilated area away from naked flames, sparks and other sources of ignition.

Store at < 30°c

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Occupational exposure limit values

Safe Work, Australia Exposure Standards:

The chemical has an exposure standard of 983 mg/m³ (400 ppm) time weighted average (TWA) and 1230 mg/m³ (500 ppm) short-term exposure limit (STEL).

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 Indice (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 work week	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 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 PVA. 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 work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Liquid	**Appearance**	Clear: colourless Liquid Blue: Iridenscent, light blue liquid.
Colour	clear	**Odour**	Typical alcohol odour
Decomposition Temperature	Not avaialble	**Melting Point**	Not available
Boiling Point	81-83˚C	**Solubility in Water**	soluble
Specific Gravity	0.8gm/ml	**pH**	Not avaialble
Vapour Pressure	33mmHg (20°C)	**Vapour Density (Air=1)**	Not available
Evaporation Rate	Not available	**Odour Threshold**	Not available
Viscosity	Not available	**Partition Coefficient: n- octanol/water**	Not available
Flash Point	12˚C	**Flammability**	Highly flammable
Auto-Ignition Temperature	Not available	**Flammable Limits - Lower**	2%
Flammable Limits	12 %		

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Refer to Sec 10: Possibility of hazardous reactions..
Chemical Stability	Stable under normal conditions of storage and handling
Conditions to Avoid	Heat, flames and other sources of ignition
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition	Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

Products Possibility of hazardous reactions	Will react with incompatible materials.
Hazardous Polymerization	N/A

SECTION 11 - TOXICOLOGICAL INFORMATION

No toxicity data available for this material. The available toxicity data for the ingredients are given below.

Toxicology Information

The available acute toxicity data for the ingredients are given below.

Acute Toxicity - Oral

The chemical was of low acute toxicity in animal tests following oral exposure. The median lethal dose (LD50) in rats is greater than 2000 mg/kg bw. Observed effects included irritation and respiratory arrest while under narcosis (OECD, 2002; WHO, 1990a; HSDB).

Acute Toxicity – Dermal

The chemical was of low acute toxicity in an animal test following dermal exposure. The median lethal dose (LD50) in rats is greater than 2000/kg mg/kg bw. Observed effects were not reported (OECD, 2002; WHO, 1990a; HSDB). **Acute Toxicity – Inhalation**

The chemical was of low acute toxicity in animal tests following inhalation exposure with reported median lethal concentrations (LC50) >20 mg/L in rats (OECD, 2002; HSDB). Observed effects included severe irritation of the mucous membranes and central nervous system depression as indicated by ataxia, prostration and narcosis.

The chemical is currently classified with the risk phrase 'Vapours may cause drowsiness and dizziness (R67)' in Australia (Safe Work Australia—HSIS). The available data in animals and humans (see **Acute toxicity:Observation in humans**) support this classification (OECD, 2002; WHO, 1990a; WHO, 1990b; REACH).

Ingestion

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Skin

The chemical was reported not to be a skin irritant.

Eye

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

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

Not considered to be toxic to reproduction.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard

Not expected to be an aspiration hazard.

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
Prevent this material entering waterways, drains and sewers.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS
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.

SECTION 14 - TRANSPORT INFORMATION

Road and Rail Transport
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.

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

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 & cargo): 353 Packaging Instructions (cargo only): 364 Special Provision: A3

U.N. Number	**1993**
Transport hazard class(es)	**3**
Hazchem Code	**3YE**
Packaging Method	**3.8.6.1RT8**
Packing Group	**II**
EPG Number	**3A1**
IERG Number	**14**

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.
Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Poisons Schedule:
Not scheduled
AICS
All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted.

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-assessment-details?assessment_id=784#cas-A_67-63-0

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REFERENCE: Revised for GHS compliance
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…….end of SDS…….