

Issue Date: 06/09/2013  
 Last Revision Date: 10/04/2024  
 Superseded Date: 06/08/2018  
 Version Number: 03

## SAFETY DATA SHEET

Product Code: ISOCOL500ML

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### SECTION 1 PRODUCT IDENTIFICATION

**Product Name:** Ethanol Ethyl Alcohol Sanitiser  
**Use:** For general purpose disinfection of hospital equipment or surfaces.

### SECTION 2 HAZARD IDENTIFICATION

**GHS Classification** Flammable Liquids: Category 2  
 Eye Damage/Irritation: Category 2A  
**Signal Word** Danger  
**Hazard Statement(s)** H225 Highly flammable liquid and vapour  
 -319 Causes serious eye Irritation  
**Pictogram(s)**



Flame



Exclamation Mark

**Precautionary Statements**  
**Prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources  
 No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ventilating/light/..equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.  
 P337+313 If eye irritation persists get medical advice/attention.  
 P370+378 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinguishing.

**Storage**

P403+235 Store in a well ventilated place. Keep cool

**Disposal**

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

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS no.	Proportion
Ethanol (alcohol)	64-17-5	70% v/v
Water - purified	7732-18-5	to 100% V/V

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### SECTION 4 FIRST AID MEASURES

**Inhalation:** Remove patient to fresh air. If respiratory irritation, dizziness, nausea or headache occurs, seek immediate medical attention. Apply artificial respiration if breathing stops.

**Ingestion:** If swallowed, give large amounts of water to drink. Do not induce vomiting. Contact a doctor or Poisons Information Centre (Australia 13 11 26).

**Skin:** Remove contaminated clothing and wash skin with water. Launder contaminated clothing before use.

**Eye:** Hold eyelids open and flush eye with gently running water for at least 15 minutes. Seek medical attention promptly if irritation persists.

**Advice to Doctor:** Care should be taken during emesis to prevent pulmonary aspiration of the return flow. If respiration is depressed, assisted respiration may be necessary.

### SECTION 5 FIRE FIGHTING MEASURES

Highly flammable liquid. Burns with a colorless flame. Eliminate all possible sources of ignition. Ventilate area well. Contain using sand or earth and use an inert absorbent (sand, vermiculite) where appropriate. Collect and seal in properly labelled containers for disposal. Wash area down with excess water. Prevent run-off from entering waterways.

**Extinguishing Media** Water fog/spray, dry chemical powder, carbon dioxide or alcohol stable foam.

**Hazards from Combustion products** On burning may emit toxic fumes including carbon monoxide and carbon dioxide. Remove containers from path of fire. Heating can cause expansion and rupture of containers. Keep containers cool with water spray.

**Precautions & Equipment for Fire Fighters** Fire-fighters should wear self-contained breathing apparatus as exposure to vapour or combustion products is likely. Vapour is heavier than air and may travel along the ground. Distant ignition is possible.

**Hazchem Code** 2[Y]E

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Eliminate all possible sources of ignition; take measures to prevent static discharge. Stop & contain spill; avoid entry into drains & waterways; use inert absorbent material (sand, vermiculite). Dispose all waste containers and used drums in accordance with local authority guidelines. Ventilate area well. Cleanup personnel to wear suitable respirator to minimise inhalation & protective clothing (eg gloves) to avoid skin contact.

### SECTION 7 HANDLING AND STORAGE

**Safe Handling Practices** Alcoholic solutions are highly flammable.  
 • Avoid pooling on surfaces.  
 • Do not use near a naked flame or other ignition source.

**Storage** Should not be stored or transported with flammable gases, explosives, spontaneously combustible substances, oxidising agents, organic peroxides or foodstuffs. Store away from sources of heat or ignition. Store in a well-ventilated area and keep containers closed when not in use to avoid evaporation. Store below 25°C. Protect from light.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Limits</b>	<b>Ethanol</b>	1000ppm;	TWA: time weighted average airborne concentration over an eight-
	<b>100%</b>	1880mg/m <sup>3</sup>	hour day, for a five-day working week over an entire working life.

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### Engineering Controls

Respiratory protection is not necessary under normal circumstances. Maintain concentration below recommended exposure limit & use with adequate ventilation at all times. In high vapour concentrations, (eg empty vessels or confined spaces) use air-supplied hood; where ethanol concentrations are in excess of 500ppm, use an organic vapour respirator (AS/NZS 1715,1716)

### Personal Protection

Avoid contact with eyes and broken skin. If spillage or splashing is likely to occur during handling, wear safety spectacles (AS/NZS 1336). Approved barrier creams may prove useful in preventing dermatitis when prolonged skin contact is unavoidable; use PVC or neoprene gloves/aprons (AS 2161). Wash hands before smoking, eating, drinking or using the toilet. Do not smoke.

## SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

Appearance:	A clear, aqueous liquid, which has spirituous odour.
pH:	Not known
Vapour Pressure:	<58.1mm@20°C
Vapour Density:	1.6
Boiling Point:	78.3°C
Freezing Point:	-117.3°C
Flash point:	15°C (closed cup)
Solubility:	Miscible in water
Specific Gravity or Density:	0.872 -0.896g/mL
Percent Volatiles	70% v/v

## SECTION 10 STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions.
Hazardous Polymerisation:	Will not occur
Incompatible Materials:	Will react with strong oxidizing agents
Conditions to Avoid:	Heat, sparks, flame and build-up of static electricity.
Hazardous Decomposition:	Burning can produce carbon monoxide and/or carbon dioxide

## SECTION 11 TOXICOLOGICAL INFORMATION

Inhalation:	Moderately irritating to mucous membranes and respiratory tract. Inhalation of vapour may result in drunkenness or headache, nausea, incoordination sleepiness and vomiting. Early signs or symptoms may occur at airborne levels of 1000 to 5000 ppm.
Ingestion:	Swallowing may cause drunkenness or harmful central nervous system effects. May cause nausea and vomiting. Other symptoms include excitation, euphoria, headache, dizziness, blurred vision and fatigue. Aspiration may cause lung damage.
Skin:	May cause irritation and reddening.
Eye:	Vapour may irritate the eyes. Liquid or mist may irritate or damage the eyes
Chronic:	Long term exposure by swallowing or repeated inhalation may cause degenerative changes in the liver, kidneys, gastrointestinal tract and heart muscle.
Note:	Nasal and eye irritation may occur at concentrations below the exposure standard
Animal Toxicity:	LD50/oral/rat: 7060 mg/kg (ethanol 100%) LD50/inhalation/rat: 38 mg/L/10 h (ethanol 100%)

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### SECTION 12 ECOLOGICAL INFORMATION

**Mobility in Soil:** Not known.  
**Persistence and Degradability:** No data available; Degree of elimination (ethanol 100%) 94%  
**Ecotoxicity:** Toxicity to fish: > 1000mg/l/48h.

### SECTION 13 DISPOSAL CONSIDERATIONS

**Disposal Methods & Containers:** Wash empty containers with water.  
Waste material may be incinerated under controlled conditions where permitted. Refer to local Waste Management Authority Regulations for other approved methods. Empty containers should be decontaminated by rinsing with water prior to disposal.

### SECTION 14 TRANSPORT INFORMATION

**UN Number:** UN number 1170.  
Dangerous substance for the purpose of transport. Refer to appropriate State Regulations for storage and transport requirements.  
**UN Proper Shipping Name:** Ethanol Solutions  
**DG Class & Packing Group:** Classified as Flammable Liquid class 3, PG II.  
**Hazchem Code:** 2[Y]E

### SECTION 15 REGULATORY INFORMATION

**Poisons Schedule:** Not scheduled  
**Classification:** Hazardous according to criteria of NOHSC.  
Dangerous Good according to criteria of the Australian Dangerous Good Code.

### SECTION 16 OTHER INFORMATION

**Reason for Revision:** To bring to date

## END OF SDS