

## MATERIAL SAFETY DATA SHEET

### Section 1: IDENTIFICATION

#### MICROL

**Recommended Use:** For rinsing or drying of instruments and surfaces.

**Product Code:** 130192 (12x500mL).



#### Whiteley Medical

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Web: [www.whiteley.com.au](http://www.whiteley.com.au)

Emergency Telephone Number: Poisons Information Centre (National) 131126

### Section 2: HAZARDS

Classified as hazardous by the criteria of Safe Work Australia.

R11: Highly Flammable  
S7: Keep container tightly closed.  
S16: Keep Away From Sources of Ignition

### Section 3: COMPOSITION INFORMATION

Ingredient	CAS No	Proportion
Ingredients deemed not to be hazardous	Not applicable	To 100%
Ethanol	64-17-5	70%

### Section 4: FIRST AID

<b>Eye (Contact)</b>	Hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
<b>Skin (Contact)</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor.
<b>Inhalation(Breathing)</b>	Remove victim from exposure. Allow patient to assume most comfortable position and keep warm. Oxygen may be administered by qualified personnel if breathing is difficult. Seek medical attention if effects persist.
<b>Ingestion (Swallowing)</b>	DO NOT induce vomiting. For advice, contact a Poisons Information Centre (Phone 131126) or a doctor.
<b>Advice to Doctor</b>	Treat as for excess consumption of alcoholic drink.
<b>First Aid Facilities</b>	Ensure an eye bath and safety shower are available and ready for use.
<b>Additional Information</b>	No aggravated medical conditions are known to be caused by exposure to this product.

**Section 5: FIREFIGHTING MEASURE**

<b>Suitable Extinguishing Media</b>	Use dry chemical, carbon dioxide, alcohol stable foam, fine water spray or fog type extinguishers.
<b>Hazards From Combustion Products</b>	Carbon monoxide and/or carbon dioxide may be produced.
<b>Precautions For Fire Fighters and Special Protective Equipment</b>	Firefighters should wear self-contained breathing apparatus (SCBA) and complete protective clothing. Vapours are heavier than air and will 'travel' to low-level areas and/or spread fires. Remove containers from path of fire if safe to do so. Water may be used to cool exposed containers. Burns with a colourless flame.
<b>Additional Information</b>	<b>Hazchem Code</b> – 2[Y]E

**Section 6: ACCIDENTAL RELEASE MEASURES**

<b>Emergency Procedure</b>	SAA/SNZ HB76: Dangerous Goods – Initial Emergency Response Guide - 14. Eliminate all sources of ignition. Ventilate area thoroughly and wear a suitable respirator if necessary to minimise inhalation. Wear suitable personal protective equipment such as protective gloves to prevent skin contact.
<b>Spills / Clean up</b>	Eliminate all sources of ignition. Stop leak if safe to do so. Prevent spill entering waterways. For larger spills (greater than 1L) – contain spill by placing inert, non-combustible absorbent material such as toweling, vermiculite, sand or dirt onto spill. For small spills (less than 1L) – can be wiped up using clean rags. Collect material using non-sparking tools and place into a suitable container for disposal according to local regulations. Clean area by working from the periphery to the centre of spill or from the edge of the room to the centre.

**Section 7: HANDLING AND STORAGE**

<b>Precautions for Safe Handling</b>	Contact Whiteley Corporation sales representative for advice when using this product for any application other than that outlined on the label or technical bulletin. Any non-intended or non-authorized use of this product may result in personal injury or damage to equipment and goods. Store product in original container. Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking and using toilet facilities.
<b>Conditions for Safe Storage</b>	Store as Class 3 Flammable Liquid in accordance with Australian Standard 1940, The storage and handling of flammable and combustible liquids. Store in a cool, dry, well ventilated area away from sources of ignition. Store away from heat, naked flames or sparks. Keep container tightly sealed and store away from incompatible materials.

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

**National Exposure Standards** – Source: National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003].

<u>Ingredient</u>	<u>CAS No</u>	<u>ES-TWA</u>	<u>ES-STEL</u>
Ethanol	64-17-5	1000ppm 1880mg/m <sup>3</sup>	Not available

**Biological Limit Values** Not known.

**Engineering Controls** When used in confined spaces respiratory protection may be required to keep concentrations below exposure standard limits, see Personal Protective Equipment.

### Personal Protective Equipment



Eye/face protection – Safety glasses or chemical resistant goggles should be worn to prevent eye contact.

Skin protection – Use suitable protective clothing, such as impervious gloves, apron, face shield and chemical resistant boots to prevent skin contact.

Respiratory protection – If necessary, use an approved respirator with organic vapour filters.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Clear colourless liquid

**Boiling Point** less than 100°C

**Odour** Ethanol

**Freezing Point** less than 0°C

**pH** Not available.

**Solubility** Soluble in water.

**Specific Gravity** 0.9

**Flash Point** 13°C – **Method:** Closed Cup

**Vapour Pressure** Not Available.

**Upper and Lower Flammability limits (in air)** Not Available.

**Vapour Density** Not Available.

**Ignition Temperature** Not Available.

## Section 10: STABILITY AND REACTIVITY

**Chemical Stability**

Stable under normal ambient storage conditions.

**Conditions to avoid**

Avoid high temperatures (store below 30°C). Protect against physical damage.

**Incompatible materials**

Incompatible with strong oxidising agents.

**Hazardous decomposition products**

Not known.

**Hazardous reactions**

Not known.

## Section 11: TOXICOLOGICAL INFORMATION

### HEALTH EFFECTS

#### Acute

**Swallowed** Considered an unlikely route of entry in commercial / industrial environments. May cause nausea and vomiting.

**Eye** Liquid or mist may cause transient eye irritation.

**Skin** Slight irritation and reddening may occur.

**Inhaled** Vapour or mists may be irritating to respiratory system. May cause headache and nausea.

**Chronic**

**Swallowed** May cause degenerative changes in the liver and kidneys.

**Eye** None known.

**Skin** Repeated skin contact may cause skin dryness and cracking.

**Inhalation** None known.

**TOXICITY DATA**

Ethanol

LD<sub>50</sub> 7060mg/kg (oral, rat)

RTECS KQ6300000

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** Not known.

**Persistence and degradability** Not known.

**Mobility** Not known.

**Section 13: DISPOSAL CONSIDERATIONS**

**Disposal method** Refer to State/Territory Land Waste Management Authority. Dispose of material through a licensed waste contractor. Rinse empty containers thoroughly before disposing to an authorised landfill.

**Special precautions** None known.

**Section 14: TRANSPORT INFORMATION**

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code).

**UN Number** 1170

**UN Proper Shipping Name** ETHANOL SOLUTION

**Class and subsidiary risk** 3 – Flammable

**Packing Group** II

**Special precautions for user** None known

**Hazchem Code** 2[Y]E

**Section 15: REGULATORY INFORMATION**

Poisons Schedule (SUSDP): Not Applicable.

All ingredients are listed in the Australia Inventory of Chemical Substances (AICS).

**Section 16: OTHER INFORMATION**

**Date of preparation:** 15<sup>th</sup> August 2013

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