



MATERIAL SAFETY DATA SHEET

Section 1: IDENTIFICATION

MICROL

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

Product Code: 130192 (12x500mL).



Whiteley Medical

A division of Whiteley Corporation Pty Ltd (A.C.N. 000 906 678)

Postal Address: P. O. Box 1076 North Sydney NSW 2059

Telephone Number: (02) 9929 9155 Facsimile: (02) 9929 9077

Web: 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

Eye (Contact)	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.
Skin (Contact)	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.
Inhalation(Breathing)	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.
Ingestion (Swallowing)	DO NOT induce vomiting. For advice, contact a Poisons Information Centre (Phone 131126) or a doctor.
Advice to Doctor	Treat as for excess consumption of alcoholic drink.
First Aid Facilities	Ensure an eye bath and safety shower are available and ready for use.
Additional Information	No aggravated medical conditions are known to be caused by exposure to this product.

Section 5: FIREFIGHTING MEASURE

Suitable Extinguishing Media	Use dry chemical, carbon dioxide, alcohol stable foam, fine water spray or fog type extinguishers.
Hazards From Combustion Products	Carbon monoxide and/or carbon dioxide may be produced.
Precautions For Fire Fighters and Special Protective Equipment	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.
Additional Information	Hazchem Code – 2[Y]E

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedure	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.
Spills / Clean up	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

Precautions for Safe Handling	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-authorised 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.
Conditions for Safe Storage	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

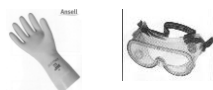
National Exposure Standards – Source: National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003].

<u>Ingredient</u>	<u>CAS No</u>	<u>ES-TWA</u>	<u>ES-STEL</u>
Ethanol	64-17-5	1000ppm 1880mg/m ³	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

LD₅₀ 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

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