

MATERIAL SAFETY DATA SHEET

Cytology Spray

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Date of Issue: 18 Sept. 06

STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

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IDENTIFICATION SECTION

Product Name	Cytology Spray
Other Names	Cyto fixative
Product Code	ACYT-200
U.N. Number	1170
Dangerous Goods Class and Subsidiary Risk	3
Hazchem Code	None allocated
Poison Schedule	2[Y]E
Use	None allocated
Use	Used in pathology as a fixing spray for Cytology specimens on microscope slides

Physical Description and Properties

Appearance	Off white to clear liquid
Boiling Point/Melting Point	BP: 78°C MP: -117°C
Vapour Pressure	59hPa @ 20°C
Specific Gravity	0.81
Flash Point	12°C
Flammability Limits	3.5% - 17% vol
Solubility in water	Soluble in all proportions

Other Properties Slippery soapy type residue on spillage. Wax residue after complete evaporation.

Ingredients

Chemical Name	CAS Number	Proportion
ETHYLENE GLYCOL (below cutoff)	107-21-1	1 to 10%
ETHANOL	64-17-5	>60%
WATER	7732-18-5	100% minus the sum of the Ethylene Glycol and Ethanol

Cytology Spray**HEALTH HAZARD INFORMATION****Health Effects:***Acute*

Swallowed:	May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach.
Eye:	May cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.
Skin:	May cause irritation to the skin, with effects including; Redness and itchiness.
Inhaled:	May cause irritation to the nose, throat and respiratory system with effects including: Dizziness, headache and possible confusion.

Chronic: Prolonged or repeated skin contact may lead to dermatitis.

First Aid:

Swallowed:	If swallowed, DO NOT induce vomiting. Seek urgent medical assistance.
Eye:	If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. Immediately transport to hospital or doctor.
Skin:	If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap if available.
Inhaled:	Remove victim to fresh air. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult. Transport to hospital or doctor immediately.
First Aid Facilities:	Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor Treat symptomatically.

PRECAUTIONS FOR USE

Exposure Standards:	ETHANOL (Worksafe Australia) [TWA]1,000 ppm 1,880 mg/m ³
	Notices: H
	(ACGIH) [TWA]1,000 ppm 1,880 mg/m ³
Engineering Controls:	Highly flammable liquid. Maintain adequate ventilation at all times. Prevent accumulation of vapours in hollows or sumps. Eliminate any sources of ignition. Regular sampling of the atmosphere should be conducted routinely with all appropriate procedures and protective equipment as outlined in this MSDS. Elevated temperature or mechanical action may form vapours, mists or fumes which may require local exhaust ventilation systems.
Personal Protection:	CLOTHING: PVC, Nitrile, Neoprene, Natural rubber or any other type of apron or splash suit as recommended by the manufacturer. GLOVES: PVC, Nitrile, Neoprene, Natural rubber or any other type of glove as recommended by the manufacturer. EYES: Chemical goggles or faceshield to protect eyes. RESPIRATORY PROTECTION: Avoid breathing of gases. Select and use respirators in accordance with AS/NZS 1715/1716. When gases exceed the exposure standards then the use of a half-face respirator with organic vapour cartridge is recommended. For high concentration use an atmosphere-supplied, positive pressure demand self-contained or airline breathing apparatus, complying with the requirements of AS/NZS 1715 is recommended. Filter capacity and respirator type depends on exposure levels. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

Cytology Spray

Flammability: Highly flammable liquid. Avoid all sources of ignition, heat and naked flames. Vapours may travel a considerable distance to source of ignition and ignite.

SAFE HANDLING INFORMATION

Storage and Transport: Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition, strong alkalis, acids, combustibles and oxidizing agents. All equipment must be earthed. Store in original packages as approved by manufacturer. Check all fittings, valves, reticulation (piping) and any ancillary equipment for leaks. A supplied air respirator or a Self-Contained Breathing Apparatus (SCBA) for emergencies should be available and checked regularly. For further information please refer to the Engineering Controls of this MSDS.

Spills and Disposal: EMERGENCY ACTION: Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas. Isolate for 800 m in all directions if tank, rail car or tanker truck is involved in fire. SPILL OR LEAK PROCEDURE: Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapour; but it may not prevent ignition in closed spaces. SMALL SPILLS: Take up with sand, dirt or vermiculite. DO NOT use sawdust. Use non-sparking tools. Place into labelled drum(s) for later disposal. LARGE SPILLS: Notify Emergency Services (Police or Fire Brigade). Tell them location, nature and any information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

Disposal

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste by an approved waste agency. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with federal, state and local requirements.

Fire/Explosion Hazard: EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, foam or water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to spray to cool fire-exposed surfaces and to protect personnel. Avoid spreading burning liquid with water used for cooling fire exposed containers when using water spray, boil-over may occur when the product temperature reaches the boiling point of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapours from this product may travel or be moved by air currents and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge or other ignition sources at locations distant from the point of handling.

OTHER INFORMATION

**Incompatibilities
(Materials to avoid)**
Animal Toxicity Data:

The information published in this Material Safety Data Sheet has been compiled from data in various technical publications. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. We reserve the right to revise Material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.