

## 1. Product and company identification

<b>Product name</b>	<b>ThinPrep PreservCyt Solution</b>
<b>Product code</b>	
<b>Address</b>	4 Fisher Crescent, Mount Wellington Auckland, New Zealand
<b>Telephone number:</b>	+64 9 377 3336
<b>Emergency Telephone Number:</b>	3E Hotline: +64 800 451719
<b>E-mail:</b>	sds@hologic.com
<b>Manufacturer</b>	Hologic, Inc.
<b>Address</b>	250 Campus Drive
<b>Supplier</b>	Pharmaco (NZ) Ltd. Marlborough, Massachusetts 01752 USA
<b>Telephone number:</b>	+1-800-442-9892
<b>Emergency Telephone Number:</b>	3E Hotline: +1-866-519-4752
<b>Access code</b>	333605
<b>E-mail:</b>	sds@hologic.com

### Recommended use and Limitations on use

**Recommended use** A methanol based, buffered preservative solution used to support cells during transport and slide preparation.

**SDS number** RD-01527 Rev.001

## 2. Hazards identification

### GHS classification

<b>Physical hazards</b>	Flammable liquids	Category 2
<b>Health hazards</b>	Acute toxicity, oral	Category 3
	Acute toxicity, dermal	Category 3
	Acute toxicity, inhalation	Category 3
	Specific target organ toxicity, single exposure	Category 1
<b>Environmental hazards</b>	Not classified.	

\*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

### Label elements

#### Symbols



**Signal word** None.

**Hazard statement** Flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes damage to organs (Central nervous system, liver, and kidneys).

### Precautionary statement

**Prevention** Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water fog for extinction. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Wash contaminated clothing before reuse. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. IF exposed: Call a POISON CENTER or doctor/physician.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Other hazards** None known.

### 3. Composition/information on ingredients

<b>Substance or mixture</b>	Mixture		
<b>Chemical property</b>		<b>CAS Number</b>	<b>Concentration (%)</b>
Water		7732-18-5	40 - 70
Methanol		67-56-1	30 - 60

### 4. First aid measures

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Immediately flush thoroughly with water for at least 15 minutes. Get medical attention immediately. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. If irritation persists: Continue flushing during transport to hospital. Take along these instructions.
<b>Ingestion</b>	Do not induce vomiting without advice from medical personnel. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Potential delayed effects</b>	Not available.
<b>Personal protection for first-aid responders</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
<b>Notes to physician</b>	Treat for CNS depression and possible renal failure. Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ethanol and fomepizole are effective antidotes for methanol poisoning, although fomepizole is preferred.

### 5. Fire-fighting measures

<b>Extinguishing media</b>	Dry chemical, foam, carbon dioxide. Water may be an ineffective extinguishing medium.
<b>Extinguishing media to avoid</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>HAZCHEM Code Number</b>	None.
<b>Specific hazards during fire fighting</b>	Heating will generate vapors which may form explosive vapor/air mixtures.
<b>Special fire fighting procedures</b>	Move container from fire area if it can be done without risk. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
<b>Protection of fire-fighters</b>	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Hazards from combustion products</b>	Carbon monoxide. Carbon Dioxide.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear suitable protective clothing, gloves and eye/face protection. Wear protective clothing as described in Section 8 of this safety data sheet. Follow standard emergency procedure.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Avoid discharge to the aquatic environment.
<b>Spill cleanup methods</b>	Immediately contact emergency personnel. Remove sources of ignition. Beware of the explosion danger. Use non-sparking tools and explosion-proof equipment. Absorb spillage with non-combustible, absorbent material. Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see Section 13 of the MSDS.

### 7. Handling and storage

<b>Handling</b>	
<b>Precautions</b>	Obtain special instructions before use. Use only with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapors. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Take precautionary measures against static discharges. Use personal protective equipment as required. Avoid release to the environment. Do not empty into drains.
<b>Safe handling advice</b>	Do not handle until all safety precautions have been read and understood.
<b>Prevention of fire and explosion</b>	All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment.

## Storage

**Suitable storage conditions** Follow rules for flammable liquids. Keep away from heat, sparks, and flame. Keep container tightly closed in a cool, well-ventilated place. Store away from incompatible materials. Keep out of the reach of children.

Storage temperature:  
Without cytologic sample: 59-86°F (15-30°C).  
With cytologic samples, for up to six weeks: 39-99°F (4-37°C).

**Incompatible materials** Alkali metals. Ammonia. Oxidizing agents. Peroxides.

## 8. Exposure controls/personal protection

### Exposure limits

#### New Zealand. WES. (Workplace Exposure Standards)

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	328 mg/m3
		250 ppm
	TWA	262 mg/m3
		200 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

#### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	333 mg/m3
		250 ppm
	TWA	266 mg/m3
		200 ppm

#### Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	328 mg/m3
		250 ppm
	TWA	262 mg/m3
		200 ppm

**Engineering controls** Observe occupational exposure limits and minimize the risk of exposure. Explosion-proof general and local exhaust ventilation. Use explosion-proof equipment.

### Personal protective equipment

**Respiratory protection** In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type A2). When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment.

**Skin protection** Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Eye/face protection** Wear approved safety goggles.

**Radioactive or thermal hazards** Not available.

**Hygiene measures** When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices. Launder contaminated clothing before reuse. Observe any medical surveillance requirements.

## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.

**Form** Liquid.

**Color** Colorless

**Odor** Alcohol.

**Odor threshold** Not available.

**pH** 5.5

<b>Melting point/freezing point</b>	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	148 °F (64.4 °C)
<b>Flash point</b>	176 °F (80 °C) Closed Cup
<b>Auto-ignition temperature</b>	725 °F (385 °C)
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability limit - lower (%)</b>	6.7 %
<b>Flammability limit - upper (%)</b>	36 %
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Density</b>	Not available.
<b>Solubility</b>	Miscible
<b>Partition coefficient (n-octanol/water)</b>	
<b>Decomposition temperature</b>	Not available.
<b>Percent volatile</b>	> 99 %

## 10. Stability and reactivity

<b>Stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Confined space.
<b>Incompatible materials</b>	Strong oxidizing agents. Reducing agents. Acids. Alkali metals. Metal powders. Potassium. Sodium. Anhydrides. Acid chlorides. Aluminum. Magnesium.
<b>Hazardous decomposition products</b>	Carbon oxides. Formaldehyde.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Other information</b>	The product is stable and non reactive under normal conditions of use, storage and transport.

## 11. Toxicological information

<b>Acute toxicity</b>	May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Causes skin and eye irritation. May cause central nervous system effects. Toxic by inhalation, in contact with skin and if swallowed. Even small amounts (30-250 ml methanol) may be fatal. Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder and blindness.
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<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Methanol (CAS 67-56-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	15800 mg/kg
<i>Inhalation</i>		
LC50	Rat	87.5 mg/l, 6 Hours
<i>Oral</i>		
LD50	Rat	5628 mg/kg
<b>Routes of exposure</b>	Ingestion. Eye contact.	
<b>Symptoms</b>	Prolonged and repeated exposure to high vapor concentrations, skin absorption or ingestion of methanol may result in visual disturbances, metabolic acidosis, headache, giddiness, nausea, insomnia, gastric disturbance, dizziness, and slow breathing. There have been severe cases reported of blindness, coma and death due to the ingestion of methanol.	
<b>Skin corrosion/irritation</b>	May be absorbed through the skin.	
<b>Serious eye damage/irritation</b>	May cause eye irritation.	
<b>Respiratory sensitizer</b>	No data available.	
<b>Germ cell mutagenicity</b>	No data available.	
<b>Toxic to reproduction</b>	The information located does not suggest that methanol is a reproductive toxin.	
<b>Specific target organ toxicity - single exposure</b>	Central nervous system. Respiratory tract. Kidneys. Liver.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
<b>Aspiration hazard</b>	Swallowing or vomiting of the liquid may result in aspiration into the lungs.	

**Chronic effects** Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 mls.

**Relevant negative data** Not available.

## 12. Ecological information

### Ecotoxicological data

Components	Species	Test Results
Methanol (CAS 67-56-1)		
<b>Aquatic</b>		
Crustacea	EC50 Water flea ( <i>Daphnia magna</i> )	> 10000 mg/l, 48 hours
Fish	LC50 Fathead minnow ( <i>Pimephales promelas</i> )	> 100 mg/l, 96 hours

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability** No data available.

**Bioaccumulation** No data available.

### Partition coefficient n-octanol/water (log Kow)

Methanol (CAS 67-56-1) -0.77

**Bioconcentration factor (BCF)** Not available.

**Mobility** The product is water soluble and may spread in water systems. The product is a volatile substance, which may spread in the atmosphere.

**Other hazardous effects** The product contains a substance which has a photochemical ozone creation potential.

## 13. Disposal considerations

**Disposal methods/information** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not discharge into drains, water courses or onto the ground. Dispose in accordance with all applicable regulations.

**Special precautions** Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose in accordance with all applicable regulations.

## 14. Transport information

### International regulations

#### IATA

**UN number** UN1992  
**Proper shipping name** Flammable liquids, toxic, n.o.s. (Methanol solution)  
**Hazard class** 3  
**Subsidiary hazard class** 6.1(PGIII)  
**Packing group** III  
**Labels required** 3, 6.1  
**Special transport precautions and conditions** Not available.

#### IMDG

**UN number** UN1992  
**Proper shipping name** Flammable liquids, toxic, n.o.s. (Methanol solution)  
**Hazard class** 3  
**Subsidiary hazard class** 6.1(PGIII)  
**Packing group** III  
**Labels required** 3, 6.1  
**Special transport precautions and conditions** Not available.

## 15. Regulatory information

### Applicable regulations

#### New Zealand Inventory of Chemicals (NZIoC): Registration status

Methanol (CAS 67-56-1) HSNO Approved

## 16. Other information

**References** Not available.

**Issued by**

Not available.

**Prepared by**

Not available.

**Disclaimer**

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