

1. CHEMICAL AND COMPANY IDENTIFICATION

Product Identification: ThinPrep® CellFyx™ Solution

Trade Name/Chemical Family/Synonyms: Methanol-water solution

Product Description: A methanol based, buffered preservative solution

Product Use: A preservative solution to support cells during transport and slide preparation.

Manufacturer: Hologic Inc.
250 Campus Drive
Marlborough, Massachusetts 01752
USA
Telephone: 800-442-9892

EMERGENCY TELEPHONE NUMBERS: For Health/Transportation/Chemical Spills
(24 hours a day and 7 days a week) (Multilingual capabilities and free calls accepted)
Continental United States: (800) 424-9300
Outside of continental United States: +(703) 527-3887

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical	CAS Registry #	Wt. %
Methanol	67-56-1	30 - 60
Water	7732-18-5	40 - 70

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: **Warning! Material is a clear flammable liquid. Inhalation of vapors may cause nonspecific discomfort (nausea, weakness), drowsiness with anesthetic effects and possible blindness. Swallowing as little as 2 ounces (60 ml) may cause blindness and in extreme cases death.**

Potential Health Effects:

Inhalation: May cause depression of central nervous system resulting in nausea, weakness, drowsiness and possibly blindness.

Eye Contact: May cause transient irritation.

Skin Contact: May cause irritation and/or dermatitis. Material may be absorbed through the skin resulting in effects similar to ingestion or inhalation.

Ingestion: May cause intoxication, Central nervous system depression, nausea, and dizziness. May damage liver, kidneys and nervous system. May cause blindness and/or death.

Target Organs: Liver, kidneys, and central nervous system.

Medical Conditions Aggravated by Exposure: Individuals with preexisting diseases of the retina (eyes) or liver may have increased susceptibility to toxicity at lower levels of successive exposure (repeated exposures).

Chronic: Liquid and vapor can penetrate skin and mucous membranes. May cause chronic liver, kidney or nervous system disorders.

4. FIRST AID MEASURES

Inhalation:	Remove patient to fresh air. If symptoms of intoxication or vision problems are apparent, get immediate medical aid.
Eye Contact:	Immediately flush with clean water for at least 15 minutes. Get medical aid.
Skin Contact:	Remove contaminated clothing and shoes. Flush affected area with copious amounts of water. If irritation or other symptoms are present, get immediate medical assistance.
Ingestion:	Do not induce vomiting unless directed to do so by medical personnel. Give one or two glasses of water and get immediate medical assistance.
Notes to Physician:	Treat for CNS depression and possible renal failure.

5. FIRE FIGHTING MEASURES

Flammability:	Flash point: 51.8°F (11°C) (closed cup) Auto ignition temperature: 725°F (385°C) Flammable limits: LEL = 6.7 UEL = 36 (based on methanol component) Flammable liquid and vapor.	
Explosion Data:	Above flash point, vapor air mixtures are explosive within flammable limits noted above. Moderate explosion hazard and dangerous fire hazard when exposed to heat, sparks or flames. Sensitive to static discharge.	
General Hazard:	Flammable material. Heated material may form toxic and/or explosive vapors.	
Fire Fighting Instructions:	Wear full turnout gear with NIOSH approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. If material is not involved in fire, attempt to cool with water or remove from area. FLAME INVISIBLE IN DAYLIGHT	
Fire Fighting Equipment:	Wear full turnout gear with NIOSH approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.	
Extinguishing Media:	Use dry chemical, alcohol foam or carbon dioxide (water may be ineffective).	
Hazardous Combustion Products:	Carbon Monoxide and Carbon Dioxide	
NFPA Hazard Rating: (National Fire Protection Association)	Health – 1 Flammability – 3 Reactivity – 0 Special Information – None	0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme U=Unknown *=No Information
Special Information:	None	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Immediately contact emergency personnel. Keep unnecessary personnel away. Ventilate area of leak or spill. Remove all sources of ignition. Use suitable protective equipment (Section 8). Isolate hazard area.
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- Environmental Precautions:** Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Dyke large spills with absorbent with an inert material (e.g., vermiculite, dry sand, earth). Absorb small spills with clay or kitty litter. For spills in excess of 50 gallons, contact licensed HAZWOPER responders.
- Methods for Containment:** Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth).
- Methods for Clean-Up:** Scoop up with non-sparking tools and equipment then place into a suitable container for disposal.
- Other Information:** Follow local, state, provincial and federal guidelines for all spills.

7. HANDLING AND STORAGE

- Handling:** KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with eyes, skin and clothing. Keep container closed. Wear recommended personal protective equipment. Avoid contact with heat, sparks and flame. Do not ingest or inhale. Wash thoroughly after handling.
- Storage:** Store away from excessive heat and sources of ignition. Keep container closed and protect from damage.
Storage temperature: Without cytologic sample: 59 – 86°F (15 – 30°C)

8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

- Engineering Controls:** Supply exhaust and/or ventilation to keep vapor levels below threshold limit value.
- Personal Protective Equipment:**
Eye/Face Protection: Wear safety glasses with side shields.
Hand Protection: Wear chemical resistant gloves.
Skin and Body Protection: Wear suitable protective clothing.
Respiratory Protection: Where engineering controls are not adequate, use approved NIOSH respirators or supplied air respirators.

Exposure limit values:

Ingredient	OSHA PEL	ACGIH TLV®	
Methanol	200 ppm – TWA	200 ppm – TWA 250 ppm – STEL	
TWA – 8 hr STEL – 15 minute			Canada – Saskatchewan
	Canada – Alberta, British Columbia, New Brunswick, Manitoba, Ontario, Quebec, and Yukon		
	200 ppm – TWA 250 ppm – STEL		262 mg/m ³ TWA 328 mg/m ³ STEL

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|---|---|
| Appearance: Clear, colorless liquid | Color: Colorless |
| Odor: Alcohol type odor | Physical State: Liquid |
| Specific Gravity (Water=1): 0.81 | VOC Content, wt. %: Not available |
| Solubility in Water: Complete | Vapor Density (Air=1): 1.1 |
| Freezing Point (°F/°C): Not available | Vapor Pressure mm/Hg: 127 |
| Evaporation Rate: >1 | pH: 6 |
| Viscosity: Not available | Boiling Point (°F/°C): 148°F (64.4°C) |
| Lower Flammability Limit: Not available | Upper Flammability Limit: Not available |
| Coefficient of Water/Oil Distribution: Not available | Auto-ignition Temperature: 725°F (385°C) |

10. STABILITY AND REACTIVITY

General Stability: Stable under normal temperatures and pressures.

Conditions To Avoid: High temperatures, incompatible materials, ignition sources, oxidizers.

Incompatible Materials: Strong oxidizers (may ignite product).

Hazardous Decomposition Products: May form carbon dioxide, carbon monoxide, and formaldehyde when heated to decomposition.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

For Methanol: Product not tested as a mixture

Inhalation: LC50 Rat: 64000 ppm/4H

Oral: LD50 Rat: 5628 mg/kg
LD50 Mouse: 7300 mg/kg

Dermal: LD50 Rabbit: 15800 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity: This material is expected to be slightly toxic to aquatic life.
Fish: LC50 Pimephales promelas (fathead minnows) 29.4 g/l/96 hr, (28-29 days old)
EC50 (30 min) Photo bacterium phosphoreum: 51,000 – 320,000 mg/L

Persistence / Degradability: No data available.

Bioaccumulation / Accumulation: No data available.

Mobility in Environment: No data available.

13. DISPOSAL CONSIDERATION

Disposal Instructions: Dispose of container and unused contents in accordance with local, state, provincial, and federal laws.

RCRA Hazardous Waste if Discarded? Yes

RCRA ID number: D001, Ignitable waste.

14. TRANSPORTATION INFORMATION

Regulatory Information	UN number	Proper shipping name	Class	Packing group
US DOT Classification	1230	Flammable liquids, n.o.s. (Methanol)	3	II

15. REGULATORY INFORMATION

USA:	The MSDS was prepared pursuant to the Hazardous Communication Standard (29 CFR 1910.1200).
Toxic Substances Control Act (TSCA):	All ingredients listed on TSCA inventory.
CERCLA:	RQ for methanol = 5,000 pounds (2270 kg).
SARA 311 Status:	Immediate, fire hazard
SARA 313:	Methanol is listed on the 313 Toxic Pollutant reporting list.
State Issues:	Not listed for California Proposition 65
WHMIS Status (Canada):	A controlled product. Classification: B2;D1B;D2A This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
Foreign Chemical Inventories:	All ingredients are listed on the chemical inventories of the following countries: Canada (DSL) Japan European Union Australia

16. OTHER INFORMATION

Current Issue Date:	December, 2009
Previous Issue Date:	Initial Hologic
Other Information:	None

Information Note: Where no corresponding data was contained in manufacturer's MSDS, additional research is required and available upon request. THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OR HER OWN PARTICULAR USE.