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ThinPrep® Cytolyt® Solution Material Safety Data Sheet (MSDS)

1. CHEMICAL AND COMPANY IDENTIFICATION

Product Identification: ThinPrep® Cytolyt® 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	20-50
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 10 ounces (296 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.

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4. FIRST AID MEASURES

Inhalation: Remove patient to fresh air. If symptoms of intoxication or vision problems are apparent, get

immediate medical aid.

Eve 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.

Do not induce vomiting unless directed to do so by medical personnel. Give one or two Ingestion:

glasses of water and get immediate medical assistance.

Treat for CNS depression and possible renal failure. Notes to Physician:

5. FIRE FIGHTING MEASURES

109°F (42fC) (closed cup) 725°F (385°C) Flammability: Flash point:

Auto ignition temperature:

Flammable limits: LEL = 6.7 UEL = 36 (based on methanol component)

Flammable liquid and vapor.

Above flash point, vapor air mixtures are explosive within flammable limits noted above. **Explosion Data:**

Moderate explosion hazard and dangerous fire hazard when exposed to heat, sparks or

flames. Sensitive to static discharge.

Flammable material. Heated material may form toxic and/or explosive vapors. General Hazard:

Wear full turnout gear with NIOSH approved self-contained breathing apparatus with full Fire Fighting

> 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 Wear full turnout gear with NIOSH approved self-contained breathing apparatus with full

Equipment: face piece operated in the pressure demand or other positive pressure mode.

Use dry chemical, alcohol foam or carbon dioxide (water may be ineffective). Extinguishing Media:

Hazardous Combustion Products:

Instructions:

Carbon Monoxide and Carbon Dioxide

NFPA Hazard Rating: (National Fire Protection

Association)

Health- 1 O=Insignificant 1=Siight Flammability- 2 2=Moderate Reactivity - 0 Special Information- None 3=Hiah 4=Extreme

U=Unknown *=No Information

SpecialInformation: 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 Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and

Precautions: 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 Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect Containment:

liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry

sand, earth).

Methods for Clean-Scoop up with non-sparking tools and equipment then place into a suitable container for

disposal.

Up: Other Information: Follow local, state, provincial and federal guidelines for all spills.

7. HANDLING AND STORAGE

KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with eyes, skin and clothing. Handling:

> Keep container closed. Wear recommended personal protective equipment. Avoid contact with heat, sparks and flame. Do not ingest or inhale. Wash thoroughly after handling.

Store away from excessive heat and sources of ignition. Keep container closed and protect Storage:

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

Eye/Face Protection: Wear safety glasses with side shields.

Equipment:

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 ILV"	
Methanol	200 ppm- TWA	200 ppm- TWA 250 ppm - STEL	
A-8hr TEL- 15 minute	Canada- Alberta, British Columbia, New Brunswick, Manitoba, Ontario, Quebec, and Yukon		Canada - Saskatchewan
	200 ppm- TWA 250 ppm - STEL		262 mg/m ³ TWA 328 mQ/m ³ STEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid

Odor: Alcohol type odor

Specific Gravity (Water-1): 0.97 Solubility in Water: Complete Freezing Point (F(C): Not available Evaporation Rate (BuAc=1): >1

Viscosity: Not available

Lower Flammability Limit: Not available

Coefficient of Water/Oil Distribution: Not available

Color: Colorless Physical State: Liquid

VOC Content, wt.%: Not available

Vapor Density (Air=1): 1.1 Vapor Pressure mm/Hg: 127

pH:7

Boiling Point (F(C): 148'F (64A'C) Upper

Flammability Limit: Not available

Auto-ignition Temperature: 725'F (385'C)

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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/1/96 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: 0001, Ignitable waste.

14. TRANSPORTATION INFORMATION

-- Regu atory -- UN ormatio u._m_b_e_r f--- Proper shipping name Class Packing group

- . G1 c J0:J 9 3 ... Flammable liquids, n.o.s. (Metha_n_o-1)--'--3-- ...

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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 lbs (2270 kg).

SARA 311 Status: Immediate, fire hazard

SARA 313: Methanol is listed on the 313 Toxic Pollutant reporting list. Not

State Issues: listed for California Proposition 65

WHMIS Status (Canada): A controlled product. Classification: 82;01B;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: February, 2014
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.