Safety Data Sheet

ThinPrep® CytoLyt Solution

SECTION 1: Identification of the substance/preparation and of the Company/undertaking

Product Identifier

Product Name ThinPrep® CytoLyt Solution

Recommended use of the chemical and restrictions on use

Specific use(s) A methanol based, buffered preservative solution used to support cells during transport

Recommended Use In vitro diagnostic

Details of the supplier of the safety data sheet

Manufacturer
Hologic Inc.
250 Campus Drive
Marlborough, MA 01752
United States
1-508-263-2900

Distributor
Hologic Canada Limited
130 Spadina Avenue, Suite 401
Toronto, ON, M5V-2L4
Canada
1-877-209-7192

24 Hour Emergency Phone Number Chemtrec, U.S. and Canada 1-800-424-9300; Chemtrec International + 1-703-741-5970

For further information, please contact: sds@hologic.com

SECTION 2: Hazards identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Oral	**Category 4**
Acute toxicity - Dermal	**Category 4**
Acute toxicity - Inhalation (Vapors)	**Category 4**
Specific target organ toxicity (single exposure)	**Category 1**
Physical hazards	**Flammable liquids Category 3**

Emergency Overview

Label Elements

Signal word
Danger

Hazard Statements
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H370 - Causes damage to organs
H226 - Flammable liquid and vapor

Precautionary Statements - Prevention
P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P233 - Keep container tightly closed

ERG Code
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P363 - Wash contaminated clothing before reuse
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Fire
In case of fire: Use CO2, dry chemical, or foam for extinction.

Precautionary Statements - Storage
P403 + P235 - Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal
P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

Hazards not otherwise classified (HNOC)
Not applicable

Unknown Acute Toxicity
0% of the mixture consists of ingredient(s) of unknown toxicity

SECTION 3: Composition/information on ingredients

Substances
Not applicable

Mixtures
Mixtures

OSHA Hazard Classification
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Component name	CAS No	%
Methanol	67-56-1	14 - 25

SECTION 4: First aid measures

First aid measures

General advice — Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.
Skin Contact	Wash off immediately with plenty of water.
Inhalation	Immediate medical attention is required. Remove to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water.
Self-protection of the first aider	Remove all sources of ignition.

Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.

SECTION 5: Firefighting measures

Flammability	Flammable liquid and vapor.
Suitable Extinguishing Media	Dry chemical, CO2, water spray or alcohol-resistant foam. Water spray, fog or alcohol-resistant foam. Move containers from fire area if you can do it without risk. Dike fire control water for later disposal; do not scatter the material. Use water spray or fog; do not use straight streams.
Unsuitable Extinguishing Media	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Those substances designated with a "P" may polymerize explosively when heated or involved in a fire. Runoff to sewer may create fire or explosion hazard.
Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up	Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.

SECTION 7: Handling and storage

Precautions for safe handling	Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep container tightly closed. Ensure adequate ventilation, especially in confined areas.

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

Conditions for safe storage, including any incompatibilities

Storage Store in accordance with local regulations. Use appropriate containment to avoid environmental contamination.

Incompatible materials. Strong oxidizing agents. Acids. Metals.

SECTION 8: Exposure Controls/Personal Protection.

Exposure Guidelines

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United States of America

Component name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methanol 67-56-1	STEL: 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m³ (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m³ (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m³ (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m³ STEL: 250 ppm STEL: 325 mg/m³

Canada

Component name	British Columbia OEL	Quebec OEL	Ontario TWA
Methanol 67-56-1	TWA: 200 ppm STEL: 250 ppm Skin	TWA: 200 ppm TWA: 262 mg/m³ STEL: 250 ppm STEL: 328 mg/m³ Skin	TWA: 200 ppm STEL: 250 ppm Skin

Mexico

Component	Carcinogenicity	Exposure Limits
Methanol 67-56-1 (14 - 25)	-	Mexico: TWA 200 ppm Mexico: TWA 260 mg/m³ Mexico: STEL 250 ppm Mexico: STEL 310 mg/m³

Appropriate engineering controls

Engineering Controls Provide adequate ventilation. Showers. Eyewash stations.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).
Skin and body protection Wear suitable protective clothing.
Hand Protection Wear protective nitrile rubber gloves.
Respiratory protection Not applicable

Other Information

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical State @20°C Liquid
Appearance Colorless, Liquid

Color	Colorless
Odor	No information available
Odor threshold	No information available

Property	**Values**
pH	7
Melting point/freezing point	9.7 °C / -12.4 °F
Boiling point / boiling range	80 °C / 177 °F
Flash point	41 °C / 105 °F
Method	
Evaporation rate	1
Flammability (solid, gas)	No information available
Flammability Limits in Air	
Upper flammability limits	36% No information available
Lower flammability limit	8.4% No information available
Vapor pressure	127 mmHg
Vapor density	2.17 (Air=1)
Relative density	
Specific Gravity	0.97
Water solubility	No information available
Solubility(ies)	No information available
Partition coefficient	No information available
Autoignition temperature	500 °C / 932 °F
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Percent Volatile	>99%

SECTION 10: Stability and reactivity

Reactivity	None under normal use conditions.
Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal use conditions.
Hazardous polymerization	None under normal use conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials.	Strong oxidizing agents. Acids. Metals.
Hazardous Decomposition Products	None under normal use conditions.
Materials to avoid	Strong oxidizing agents. Acids. Metals.

SECTION 11: Toxicological information

Information on likely routes of exposure

Product Information	May be harmful by inhalation, ingestion, or skin absorption.
Inhalation	May be harmful if inhaled.
Eye contact	None under normal use conditions.
Skin Contact	May be harmful in contact with skin.
Ingestion	May be harmful if swallowed.

Component name	LD50/oral/rat - NO UNITS (Wizards mg/kg)	LD50/dermal/rat - NO UNITS (Wizards mg/kg)	Inhalation LC50
Methanol 67-56-1	= 5628 mg/kg (Rat)	-	= 83.2 mg/L (Rat) 4 h

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.
Serious eye damage/eye irritation No information available.
Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity No information available.

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.

Target Organ Effects Central nervous system, Eyes, Gastrointestinal tract (GI), Respiratory system, Skin.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .
ATEmix (oral) 476 mg/kg
ATEmix (dermal) 1429 mg/kg
ATEmix (inhalation-vapor) 14 mg/l

SECTION 12: Ecological information

Ecotoxicity
20 - 50% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Component name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Chloride 7647-14-5		12946: 96 h Lepomis macrochirus mg/L LC50 static		1000: 48 h Daphnia magna mg/L EC50 340.7 - 469.2: 48 h Daphnia magna mg/L EC50 Static
Potassium Chloride 7447-40-7	2500: 72 h Desmodesmus subspicatus mg/L EC50	1060: 96 h Lepomis macrochirus mg/L LC50 static		825: 48 h Daphnia magna mg/L EC50 83: 48 h Daphnia magna mg/L EC50 Static

Persistence and degradability No information available.

Bioaccumulation No information available.

Mobility No information available.

Component name	Partition coefficient
Methanol 67-56-1	-0.77

Other adverse effects No information available.

SECTION 13: Disposal Considerations.

Waste treatment methods

Disposal of wastes This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Waste from Residues / Unused Products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

Component name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methanol 67-56-1		Included in waste stream: F039		U154

Component name	California Hazardous Waste Status
Methanol 67-56-1	Toxic Ignitable

SECTION 14: Transport information

DOT

UN/ID no	UN1993
Proper Shipping Name	FLAMMABLE LIQUIDS, N.O.S.
Hazard Class	3
Packing group	III
Description	UN1993, FLAMMABLE LIQUIDS, N.O.S. (Methanol), 3, III
Emergency Response Guide Number	128

TDG

UN/ID no	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing group	III
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Methanol), 3, III

IATA

UN/ID no	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Hazard Class	3
Packing group	III
ERG Code	3L
Description	UN1993, Flammable liquid, n.o.s. (Methanol), 3, III

IMDG

UN/ID no	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing group	III
EmS No.	F-E, S-E
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Methanol), 3, III, (41°C C.C.)

SECTION 15: Regulatory information

International Inventories

Component name	TSCA	EINECS/ELINCS	DSL/NDSL	PICCS
Water 7732-18-5	Present	X	X	X
Methanol 67-56-1	Present	X	X	X
Magnesium Acetate 142-72-3	Present	X	X	X
Sodium Chloride 7647-14-5	Present	X	X	X
Potassium Chloride 7447-40-7	Present	X	X	X

Component name	ENCS	IECSC	AICS	KECL

Water 7732-18-5	-	X	X	Present
Methanol 67-56-1	Present	X	X	Present
Magnesium Acetate 142-72-3	Present	X	X	Present
Sodium Chloride 7647-14-5	Present	X	X	Present
Potassium Chloride 7447-40-7	Present	X	X	Present
Calcium Acetate 5743-26-0	-	X	-	-

Legend
X - Present
- Not Listed
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component name	CAS No	%	SARA 313 - Threshold Values %
Methanol - 67-56-1	67-56-1	14 - 25	1.0

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Component name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Methanol 67-56-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Component name	California Proposition 65
Methanol - 67-56-1	Developmental

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Component name	New Jersey	Massachusetts	Pennsylvania
Methanol 67-56-1	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

International Regulations

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

WHMIS Hazard Class
B3 - Combustible liquid
D2A - Very toxic materials
D2B - Toxic materials

Mexico
No information available

Component name	Carcinogenicity	Exposure Limits
Methanol	-	Mexico: TWA 200 ppm Mexico: TWA 260 mg/m^3 Mexico: STEL 250 ppm Mexico: STEL 310 mg/m^3

SECTION 16: Other information

Revision Date 06-Nov-2019

Version 8

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet