1) Substance Identification

Product Name: ThinLayer Cell Preserve Solution

Item #: 1GYN-125V, 1GYN-500V, 1NGYN-100V, 1NGYN-500V, 1NGYN-FF

Synonyms: N/A

Recommended Use: Laboratory Reagent

Restrictions on Use: N/A

Manufacturer:
Cancer Diagnostics, Inc.
116 Page Point Circle
Durham, NC 27703
1-877-846-5393

In Case of Emergency:
Chemtrec US 1-800-424-9300
Chemtrec International 703-527-3887

2) Hazards Indentification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Acute toxicity – Oral (Category 3)
Acute toxicity – Dermal (Category 3)
Acute toxicity – Inhalation Vapors (Category 3)
Specific target organ toxicity – Single exposure (Category

1) Physical hazards – Flammable liquids (Category 3)

Emergency Overview

Label Elements

Signal word – Danger

Hazard Statements

H301 – Toxic if swallowed
H311 – Toxic in contact with skin
H331 – Toxic 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
P280 – Wear protective gloves/protective clothing/eye protection/face protection P260 – Do not breathe dust/fume/gas/mist/vapors/spray
P270 – Do not eat, drink or smoke when using this product
P264 – Wash face, hands and any exposed skin thoroughly after handling
P233 – Keep container tightly closed

Precautionary Statements – Response
P307 + P311 – 1F exposed : Call a POISON CENTER or doctor/physician

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 + P 361 + 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
P311 – Call a POISON CENTER or doctor/physician
P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P330 – Rinse mouth

Fire
In case of fire: Use C02, dry chemical or foam for extinction

Precautionary Statements – Storage
P405 – Store locked up
P403 + P233 – Store in a well-ventilated place. Keep container tightly closed

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

regulation. Hazards not otherwise classified (HNOC)

Other Information
50% of the mixture consists of ingredient(s) of unknown toxicity

3) Composition

Substance	%Wt.	CAS No.
Methanol	30-60	67-56-1
Water	40-70	7732-18-5

4) First-aid Measures

General	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).
Inhalation	Remove to fresh air and rest If recovery is not rapid call for prompt medical attention Show this safety data sheet to medical personnel
Eyes	Irrigate with water for at least 15 minutes Take care not to wash chemical from one eye to another. Get prompt medical attention
Skin	Remove contaminated clothing Wash with soap/cleanser and rinse with plenty of water If irritation persists, obtain medical attention
Ingestion	Do not induce vomiting Give plenty of water to drink Beware of aspiration if vomiting occurs Seek medical attention immediately
Self-protection	Remove all sources of ignition.
Symptoms	Treat symptomatically.

Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.

5) Fire-fighting Measures

Flammability	Flammable liquid and vapor.
Suitable Extinguishing Media	Dry chemical, Foam, Carbon dioxide (CO2)
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Special hazards arising from the chemical	Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may form explosive mixtures with air. Flammable.
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.

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. 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. Soak up with inert absorbent material.

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.
Storage Conditions	Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).
Incompatible materials	Strong oxidizing agents. Acids. Metals.

8) Exposure Controls / Personal Protection

Occupational Exposure Limit: 266mg/m³ 8hrTWA 333mg/m³ 15minSTEL OES Methanol (Sk) 1920mg/m³ 8hrTWA OES ethanol

Appropriate engineering controls

Engineering Controls: Provide adequate ventilation. Showers. Eyewash stations.

Individual protection measures, such as personal protective equipment

Wear polythene, nitrile or rubber gloves
Wear suitable overalls or apron and change if contaminated
Wear suitable eye protection such as BS EN 166 Grade 3
Use in well ventilated areas
Use mechanical ventilation if possible
If excessive inhalation in a poorly ventilated area is likely then use a respirator with filter type A
After contact with skin wash off immediately

General Hygiene Considerations

Regular cleaning of equipment, work area and clothing is recommended. When using do not eat, drink or smoke.

Other Information

Environmental exposure controls: No information available

9) Physical & Chemical Properties

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear, colorless, liquid
Odor	Alcohol
Odor threshold	No information available
pH	5.8-6.3
Boiling point/range	71°C / 159°F
Melting point/range	-48°C / -54°F
Flash point	35°C / 95°F (Closed Cup)
Evaporation rate	No information available
Flammability (solid,gas)	No information available

Upper flammability limits	36%
Lower flammability limits	6.70%
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Water solubility	Miscible in water
Solubility(ies)	No information available
Partition coefficient	No information available
Autoignition temperature	385
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	No information available
Oxidising properties	No information available
Percent Volatile	> 99%

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.
Material to avoid	Strong oxidizing agents. Acids. Metals.

11) Toxicological Information

Information on likely routes of exposure

Product information	Repeated or prolonged exposure may cause central nervous system damage. May be harmful by inhalation, ingestion, or skin absorption.
Inhalation	Harmful by inhalation.
Eye contact	May cause irritation.
Skin contact	Harmful in contact with skin. Harmful if swallowed.
Ingestion	

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	50.133% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

12) Ecological Information

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

13) Disposal Considerations

Waste treatment methods

Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
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.
US EPA Waste Number	D001 U154

Component name	RCRA	RCRA-Basis for listing	RURA – D Series	RCRA – U Series
Methanol 67-56-1		Included in waste stream:		U154

14) Transport Information :

DOT (Department of Transportation)

UN/ID No.	UN1992
Proper Shipping Name	Flammable liquids, Toxic, n.o.s
Hazard Class	3
Packing Group	III
Description	UN1992 Flammable liquids, Toxic, n.o.s (Methanol), 3, III
Emergency Response Guide No.	128

TDG (Transportation of Dangerous Goods)

UN/ID No.	UN1992
Proper Shipping Name	Flammable liquids, Toxic, n.o.s
Hazard Class	3
Packing Group	III
Description	UN1992 Flammable liquids, Toxic, n.o.s (Methanol), 3, III

IATA (International Air Transport Association)

UN/ID No.	UN1992
Proper Shipping Name	Flammable liquids, Toxic, n.o.s
Hazard Class	3
Packing Group	III
ERG Code	3L
Description	UN1992 Flammable liquids, Toxic, n.o.s (Methanol), 3, III

IMDG (International Maritime Dangerous Goods)

UN/ID No.	UN1992
Proper Shipping Name	Flammable liquids, Toxic, n.o.s
Hazard Class	3
Packing Group	III
EmS-No	F-E , S-E
Description	UN1992 Flammable liquids, Toxic, n.o.s (Methanol), 3, III

15) Regulatory Information

International Inventories

Component Name	TSCA	EINECS/ELINCS	DSL/NDSL	PICCS
Methanol 67-56-1	Present	X	X	X
EDTA Disodium Salt	-	-	X	X
Glacial Acetic Acid 758-12-3	-	X	-	-

Component Name	ENCS	IECSC	AICS	KECL
Methanol 67-56-1	Present	X	X	Present
EDTA Disodium Salt	-	X	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

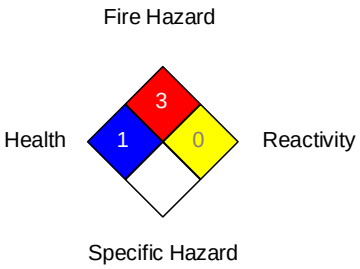
16) Other Information

Revision Date: 2022-11-15

NFPA

Health	1
Fire Hazard	3
Reactivity	0
Specific Hazard	

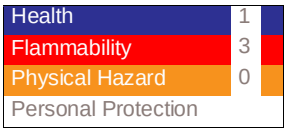
National Fire Protection Association (USA) NFPA



HMIS

Hazardous Material Information System HMIS

Health	1
Flammability	3
Physical Hazard	0
Personal Protection	



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