

# SAFETY DATA SHEET

Quality Assessment Product Samples Using Methanol-based Transport Medium

SDS DATE: 01 May, 2020/ R6

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Quality Assessment Product Samples Using Methanol-based Transport Medium  
**SYNONYMS:** None  
**PRODUCT CODES:** PT-12-M1, PT-12-M2, PT-12-M3, PT-17-M1, PT-17-M2, PT-19-M1, PT-19-01, PT-99-M1, PT-99-M3, PT-62-16, PT-62-18, PT-62-45; PT-62-31, PT-62-33, PT-62-39, PT-62-67, PT-63-01; VP-12-M1, VP-12-M2, VP-12-M3, VP-17-M1, VP-17-M2, VP-19-M1, VP-19-01, VP-99-M1, VP-99-M3, VP-62-16, VP-62-18, VP-62-45, VP-62-31, VP-62-33, VP-62-39, VP-62-67, VP-63-01

**MANUFACTURER:** Microbix Biosystems Inc.  
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**TECHNICAL PHONE:** 905-361-8910  
**FAX PHONE:** 905-361-8911

**CHEMTREC PHONE:** 800-424-9300 for assistance  
International 703-527-3887

**AGENT NAME:** *Chlamydia trachomatis*, *Neisseria gonorrhoeae*, *Streptococcus agalactiae*, *Mycoplasma genitalium*, Human Papilloma Virus, SARS-CoV-2

**PRODUCT USE:** For further manufacturing or research use only.

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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

Note: All product codes listed above, with the exception of PT-99-M1, PT-99-M3, VP-99-M1, and VP-99-M3 contain inactivated bacterial and/or viral particles. Although, these components are inactivated, at their given concentrations they are not considered to be hazardous to health.

## SECTION 3: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

**WARNING!** Material is a clear flammable liquid. Inhalation of vapors may cause nonspecific discomfort (nausea, weakness), drowsiness with anesthetic effect and possible blindness. Swallowing as little as 4 ounces (118 mL) can cause blindness and in extreme cases death.

**ROUTES OF ENTRY:** Inhalation, skin, ingestion.

### POTENTIAL HEALTH EFFECTS:

**EYES:** May cause irritation.

**SKIN:** May cause irritation and/or dermatitis. Material may be absorbed through the skin, resulting in effects similar to ingestion and 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.

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

**TARGET ORGANS:** Liver, kidneys, and central nervous system.

### MEDICAL CONDITIONS GENERALLY AGGRAVATED

**BY EXPOSURE:** Individuals with preexisting disease of the retina (eyes) or liver may have increased susceptibility to toxicity at lower levels or successive exposure.

**CHRONIC:** Liquid and vapor can penetrate skin and mucous membrane, May cause chronic liver, kidney and/or nervous system disorders.

## SECTION 4: FIRST AID MEASURES

# SAFETY DATA SHEET

Quality Assessment Product Samples Using Methanol-based Transport Medium

SDS DATE: 01 May, 2020/ R6

Inhalation: Remove individual to fresh air and seek medical attention.

Eye: Irrigate immediately with copious amounts of water for at least 15 minutes. Seek medical attention.

Skin: Remove contaminated clothing and shoes. Immediately wash affected area with copious amounts of water. Seek medical attention

Ingestion: Wash out mouth with water provided the person is conscious. Seek medical attention.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**FLAMMABILITY:** Flash point: 80F, 26.5°C (closed cup)  
Auto ignition temperature: 725 F (385°C)  
Flamable limits: LEL = 6.7, UEL = 36 (based on methanol component)  
Flammable liquid and vapour

**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.

**EXTINGUISHING MEDIA:** Use dry chemical, alcohol foam or carbon dioxide or any means suitable for extinguishing surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Use protective clothing, equipment and breathing gear appropriate for the surrounding fire.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide and carbon dioxide.

**NFPA Hazard Rating:** Health-1, Flammability-3, Reactivity-0.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**PRECAUTIONS:** Immediately contact emergency personnel. Keep unnecessary personnel away. Ventilate the area of leak or spill. Remove all sources of ignition. Use suitable protective equipment. Isolate hazard area. Absorb with an inert material and put the spilled material in an appropriate waste disposal.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Keep away from children. Store this antigen preparation at 4-37°C temperatures. Generally accepted good laboratory practices appropriate to biological reagents should be employed when handling this product. Avoid contact with eyes, skin and clothing. Do not ingest or inhale. Wash thoroughly after handling.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** Supply ventilation to keep vapour levels below threshold limit value.

**RESPIRATORY PROTECTION:** Where engineering controls are not adequate, wear appropriate NIOSH vapor respirator. Be sure to use an approved/certified respirator or equivalent.

**EYE PROTECTION:** Goggles

**SKIN PROTECTION:** Gloves

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Wear suitable protective clothing.

**WORK HYGIENIC PRACTICES:** There are no known hazards associated with this material when used as recommended. Report as potentially infectious material and follow good industry hygiene practices.

**EXPOSURE GUIDELINES:** Not established.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** Clear, colourless liquid.  
**Odor:** Alcohol type odor.  
**Specific gravity:** 0.92  
**Solubility in water:** Complete

# SAFETY DATA SHEET

Quality Assessment Product Samples Using Methanol-based Transport Medium

SDS DATE: 01 May, 2020/ R6

Freezing point: N/A  
Viscosity: N/A  
Lower flammability point: N/A  
Color: Colorless  
Physical state: Liquid  
VOC content: N/A

Vapor density: 1.1  
Vapor pressure mm/Hg: 127  
pH: 5.5  
Boiling point: 64.5°C  
Auto-ignition temperature: 385°C

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## SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** Stable used under normal conditions.

**CONDITIONS TO AVOID (STABILITY):** Avoid heating, high temperatures, incompatible materials, ignition sources, oxidizers.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Incompatible with strong oxidizers.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** May form carbon dioxide, carbon monoxide and formaldehyde when heated to decomposition.

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID (POLYMERIZATION):** Not Available.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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For Methanol:

<b>INHALATION:</b>	LC50 Rat: 64,000 ppm/4H
<b>ORAL:</b>	LD50 Rat: 5628 mg/kg
	LD50 Mouse: 7300 mg/kg
<b>DERMAL</b>	LD50 Rabbit: 15800 mg/kg

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## SECTION 12: ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION:** This material may be slightly toxic to aquatic life.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Always dispose of material in accordance with local, state and federal regulations.

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## SECTION 14: TRANSPORT INFORMATION

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For methanol:

US DOT Classification: UN Number: 1993, Flammable liquid, NOS, Class 3, Packaging group III, Label 22

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## SECTION 15: REGULATORY INFORMATION

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For Methanol:

**U.S. FEDERAL REGULATIONS**

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** All ingredients listed on TSCA inventory

**SARA 311 Status:** Immediate, fire hazard

**SARA 311:** Methanol is listed on the 313 Toxic pollutant reporting list.  
**United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory**

Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

# SAFETY DATA SHEET

## Quality Assessment Product Samples Using Methanol-based Transport Medium

SDS DATE: 01 May, 2020/ R6

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

State regulations **WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

Methanol (CAS 67-56-1) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Methanol (CAS 67-56-1) Listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Methanol (CAS 67-56-1) Listed: March 16, 2012 Developmental toxin.

US - New Jersey RTK - Substances: Listed substance

Methanol (CAS 67-56-1) Listed.

US. Massachusetts RTK - Substance List

Methanol (CAS 67-56-1) Listed.

US. New Jersey Worker and Community Right-to-Know Act

Methanol (CAS 67-56-1) 500 lbs

US. Pennsylvania RTK - Hazardous Substances

Methanol (CAS 67-56-1) Listed.

Mexico regulations This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

### CANADIAN FEDERAL REGULATIONS:

WHMIS:

A controlled product. Classification: B2, D1B, D2A

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### SECTION 16: OTHER INFORMATION

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#### OTHER INFORMATION:

Product Use: For further laboratory in vitro use only.

#### PREPARATION INFORMATION:

Prepared By: Quality Assurance

Revision Date: 01 May, 2020

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