



SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF PRODUCT (MIXTURE) AND SUPPLIER

Product Name: *Chlamydia trachomatis* Specimen Collection Kit

Product Number: 30706 (20 Specimen Collection Kits)

Intended Use: For the collection and transport of direct clinical specimens for the detection of *Chlamydia trachomatis* by immunofluorescence. *Note: The cytology brush is for use on non-pregnant women only.*

Supplier's Name: **Bio-Rad Laboratories, Inc.**

Address: 6565 185th Avenue NE
Redmond, WA 98052-5039, USA

Website: www.bio-rad.com

Phone Number: 1-800-2-BIORAD (1-800-224-6723); or 1-425-881-8300 (daytime PT)

SDS e-mail contact: ro-sds@bio-rad.com

Technical Information Contacts: Bio-Rad provides a toll free line for technical assistance, available 24 hours a day, 7 days a week. In the United States of America and Puerto Rico, call toll free 1-800-2-BIORAD (1-800-224-6723). Outside the U.S.A., please contact your regional Bio-Rad office for assistance. *Refer to section 16 for non-US local Bio-Rad agent contact information.*

Authorized Representative in the European Community: *FRANCE: Bio-Rad*
3 boulevard Raymond Poincaré
92430 Marnes-la-Coquette
Phone: +33 (0) 1 47 95 60 00 / Fax: +33 (0) 1 47 41 91 33
[\[fds-msds.fr@bio-rad.com\]](mailto:fds-msds.fr@bio-rad.com)

Emergency Phone Number: **This SDS is listed with CHEMTREC 1-800-424-9300 / 001-703-527-3887** (international – can be called collect). Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product. *Refer to section 16 for non-US local Bio-Rad agent contact information.*

SECTION 2: HAZARDS IDENTIFICATION -- HAZARDOUS COMPONENTS

This test kit should be handled only by qualified personnel trained in laboratory procedures and familiar with their potential hazards. Specific warnings are given in the instructions for use. The absence of a specific warning should not be interpreted as an indication of safety. The following information is furnished for those product hazardous constituents that require regulatory control or disclosure at the concentration found in the product. Refer to Section 16 for the Key / legend to abbreviations and acronyms.

Component	Contents
3 Collection Devices (Swabs)	- 1 large swab on a plastic shaft - 1 small swab on a wire shaft - 1 cytology brush
1 Slide	- Single-well glass slide
Methanol Fixative, 1 ampule (0.5 mL)	- Methanol (undiluted) [CH ₃ OH], EC No 200-659-6, CAS# 67-56-1 [GHS \ US HCS \ EC CLP Classification: DANGER! GHS02, GHS06, GHS08; H225, H301, H311, H331, H370; P210 + P243, P260; P308 + P311, P370 + P378; P405; P501]

Chemical Ingredient / Data / Information

Chemical Ingredient: Undiluted Methanol

Chemical concentrations found in this product: **80-100 % (v/v) - aqueous**

Data for Concentrated / 100% chemical used in the product mixture (concentration tested):

CAS#: 67-56-1 (100%)	LD ₅₀ (oral-rat): 5628 mg/kg (100%)
EC No: 200-659-6 (100%)	LC ₅₀ (inhalation-rat): 64000 mg/m ³ /8H (100%)
Index No: 603-001-00-X (100%)	LD ₅₀ (skin-rabbit): 15800 mg/kg (100%)
Registration No: 01-2119433307-44-XXXX	Flash Point: 49.5°F / 9.5°C (100%)
RTECS#: PC1400000 (100%)	Flammable limits: LEL/LFL is 6% ; UEL/UFL is 36% vv in air
Toxicity to Fish: LC ₅₀ : Oncorhynchus mykiss (rainbow trout) – 19000 mg/l – 96 h; Cyprinus carpio (Carp) – 36000 mg/l – 48 h; Lepomis macrochirus (Bluegill) - 15400 mg/l - 96 h	
Chemical Formula: CH ₄ O (100%)	
Molecular weight: 32.04 g/mol (100%)	
Synonyms/Trade Names: Methyl alcohol, Wood alcohol, Wood Spirit, Wood naphtha; Methyl hydrate; Methyl hydroxide; Methylalkohol; Methylol	
CA Proposition 65: Chemical known to the State of California to cause reproductive toxicity.	

Raw Material and product GHS / US HCS / EC CLP Classification (100%):

DANGER!

Fla. Lliq., Cat. 2, Acute Tox. – oral, Cat. 3, Acute Tox. – inh., Cat. 3, Acute Tox. -- skn. Cat. 3, STOT SE, Cat. 1

H225, H301 + H311 + H331, H370

P210 + P243, P260, P308 + P311, P370 + P378, P405, P501

[Source: Raw Material vendor SDS, CCOHS databases and regulatory research]



Supplemental Hazard Information for the product dilution: Methanol is known to the state of California to cause reproductive toxicity.

Targets the central nervous system (CNS), eyes, liver, and kidneys. May cause injury, blindness, or death by inhalation, ingestion, or as absorbed through the skin, however industrial exposures are considered safe if concentrations are kept within the OSHA PEL exposure limit of 200 ppm. Contact can severely irritate skin and eyes.

NE: Not Established or Unknown (unable to locate data); typically for concentrate form unless otherwise specified.

NA: Not Applicable

Related product information:

- ◆ Refer to section 16 for the full text of any *Comprehensive GHS-based Classification* statements coded above. Refer to Section 16 for the list of sources utilized in the assessment and the Key / legend to abbreviations and acronyms.
- ◆ Because these slides are made of glass, they could pose a slight physical cutting hazard, especially if broken or chipped.
- ◆ According to the concept of Universal Precautions (29 CFR 1910.1030), all human blood and certain human body fluids must be treated as if known to be infectious for HIV, HBV, and other bloodborne pathogens. Individual patient samples being tested represent a heightened, unknown hazard.

SECTION 4: EMERGENCY FIRST AID MEASURES

Health Effects:	Symptoms of overexposure may include headache, dizziness, congestion, and breathing difficulty. Toxic by inhalation, in contact with skin, and if swallowed. Causes damage to organs. Skin contact may result in dermatitis. Risk of damage to eyes. Vapors/Vapours may cause drowsiness or dizziness. <i>Note: The cytology brush is for use on non-pregnant women only.</i>
Eye Contact:	Flush eyes with copious water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers while flushing with water. OBTAIN MEDICAL ATTENTION.
Skin Contact:	Remove contaminated clothing. Flush skin with copious water and wash affected area with soap and water.
Inhalation:	Remove person from exposure area to fresh air. If breathing becomes difficult, immediately call for emergency medical assistance. Treat symptomatically and supportively.

If Swallowed:	If ingested, rinse out mouth thoroughly with water, provided the person is conscious, and OBTAIN MEDICAL ATTENTION. Call a physician or the local poison control center. Treat symptomatically and supportively. If vomiting occurs, keep head lower than hips to prevent aspiration.
---------------	---

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media:	Use extinguishing media appropriate for the surrounding fire. Dry chemical, foam, carbon dioxide, or water may be appropriate. Water spray may be used to cool fire, dilute to a non-flammable mixture, and/or protect response personnel attempting to stop a leak. <i>Water may be ineffective because it will not cool methanol to below its flash point. Alcohol-resistant firefighting foams are the extinguishing media of choice.</i>
Hazardous Combustion Products:	Oxides of carbon or nitrogen may form when heated to decomposition.
Special Firefighting Procedures:	Conventional firefighting full protective equipment (with NIOSH-approved self-contained breathing apparatus) and procedures appropriate for the surrounding fire should be sufficient.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- ◆ Avoid direct contact with skin, eyes, mucous membranes, and clothing by wearing appropriate lab personal protective equipment (PPE), including gloves, lab coat, and eye/face protection.
- ◆ In the event of a hazardous material spill, contain the spill if it is safe to do so and immediately move to a safe area, free from potential aerosols, to decontaminate and/or safely remove any contaminated clothing, as necessary. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Isolate the hazard area and ventilate if appropriate. In case of inadequate ventilation, wear respiratory protection.
- ◆ Ensure that appropriate spill cleanup materials and PPE are available and used. Use only non-sparking tools. Eliminate sources of ignition if safe to do so. Have extinguishing agent available in case of fire.
- ◆ Follow established laboratory policy and applicable CDC/NIH biosafety and/or OSHA/WISHA hazardous material spill and/or NFPA/Fire Code guidelines for appropriate hazardous chemical and/or biological material spill response and cleanup.
- ◆ Wear appropriate PPE. Immediately, and on-site if possible, eliminate sources of ignition if safe to do so. Have extinguishing agent available in case of fire. Deactivate flammable material spills with a solvent adsorbent product, using non-sparking tools. Absorb spillage to prevent material damage. Avoid release to the environment.
- ◆ Clean the spill area with water and wipe dry. Spills can also be absorbed with appropriate inert materials (e.g., spill pillows, acid absorbent pads) which are secured in an appropriate, labeled, sealed container. Material used to absorb the spill may require hazardous material waste disposal. Infectious, chemical, and laboratory wastes must be handled and discarded in accordance with all local, regional, national, and international regulations.
- ◆ **Broken slides** contaminated with blood or other human source or potentially infectious material must be handled as Sharps per 29 CFR 1910.1030, OSHA Bloodborne Pathogen and other regulations; however, dispose of this material in accordance with local, regional, national, and international regulations. Slides processed with material that is not of human origin and is not pathogenic to humans, if broken, can typically be handled as normal uncontaminated broken glass labware; however, dispose of this material in accordance with local, regional, national, and international regulations.
- ◆ Refer to Sections 8 and 13 for more specifics.

SECTION 7: HANDLING AND STORAGE INFORMATION

Handling:	<p>This test kit should be handled only by qualified personnel trained in laboratory procedures and familiar with their potential hazards. Follow proper Good Laboratory Practices and safety guidelines for handling chemical, biological, and laboratory hazards.</p> <p>Do not smoke, eat, or drink in areas where patient samples and kit reagents are handled. Wash your hands after use. Wear appropriate personal protective equipment (PPE) including gloves, lab coat or equivalent, and eye/face protection.</p> <p>Keep containers tightly closed; avoid splashing, spills, and the generation of aerosols.</p> <p>Handle all specimens, materials, and equipment used to perform the operations as though they were capable of transmitting infectious disease, as per Universal Precautions.</p> <p>All personal protective equipment should be removed before leaving the work area. Refer to Section 8 for more specifics.</p> <p>Avoid release to the environment. Do not allow undiluted product hazardous chemical ingredient or large quantities of it to reach ground water or water course.</p> <p>Consult with your Environmental Health & Safety Office for assistance.</p>
Storage:	<p>Store the kit components as specified on the product label and/or in the product instructions provided with the test kit. Store locked up.</p>
<p>Caution, consult accompanying documents. Read and follow all the Precautions and Warnings in the kit product instructions for use.</p>	
<p>For the collection and transport of direct clinical specimens for the detection of <i>Chlamydia trachomatis</i> by immunofluorescence.</p>	

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION MEASURES

Control Parameters – Component chemicals with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Concentrated Methanol [CAS# 67-56-1] - OEL:			
ARAB Republic of Egypt:	TWA	200 ppm (260 mg/m ³), skin	JAN1993
AUSTRALIA:	TWA	200 ppm (262 mg/m ³)	JUL2008
	STEL	250 ppm (328 mg/m ³)	
AUSTRIA:	MAK-TMW	200 ppm (260 mg/m ³)	2007
	KZW	800 ppm (1040 mg/m ³), skin	
BELGIUM:	TWA	200 ppm (266 mg/m ³)	MAR2002
	STEL	250 ppm (333 mg/m ³), skin	MAR2002
DENMARK:	TWA	200 ppm (260 mg/m ³), skin	MAY2011
EC (European Union):	TWA	260 mg/m ³ (200 ppm), skin	FEB2006
FINLAND:	TWA	200 ppm (270 mg/m ³)	NOV2011
	STEL	250 ppm (330 mg/m ³), skin	
FRANCE:	VME	200 ppm (260 mg/m ³)	FEB2006
	VLE	1000 ppm (1300 mg/m ³)	
GERMANY:	MAK	200 ppm (270 mg/m ³)	2011
HUNGARY:	TWA	260 mg/m ³	SEP2000
	STEL	1040 mg/m ³ , skin	
ICELAND:	TWA	200 ppm (260 mg/m ³), skin	NOV2011
JAPAN:	OEL	200 ppm (260 mg/m ³), skin	MAY2012
KOREA:	TWA	200 ppm (260 mg/m ³)	2006
	STEL	250 ppm (310 mg/m ³), skin	
MEXICO:	TWA	200 ppm (260 mg/m ³)	2004
	STEL	310 mg/m ³ (250 ppm)	
THE NETHERLANDS:	MAC-TGG	260 mg/m ³ , Skin	2003

Concentrated Methanol [CAS# 67-56-1] - OEL:			
NEW ZEALAND:	TWA STEL	200 ppm (262 mg/m ³) 250 ppm (328 mg/m ³), skin	JAN2002
NORWAY:	TWA	100 ppm (130 mg/m ³)	JAN1999
PERU:	TWA STEL	200 ppm (262 mg/m ³) 250 ppm (328 mg/m ³)	JUL2005
THE PHILIPPINES:	TWA	200 ppm (260 mg/m ³)	JAN1993
POLAND:	MAC(TWA) MAC(STEL)	100 mg/m ³ 300 mg/m ³	JAN1999
RUSSIA:	TWA STEL	5 mg/m ³ 15 mg/m ³ , skin	JUN2003
SWEDEN:	TWA STEL	200 ppm (250 mg/m ³) 250 ppm (350 mg/m ³), skin	JUN2005
SWITZERLAND:	MAK-W KZG-W	200 ppm (260 mg/m ³) 800 ppm (1040 mg/m ³), skin	JAN2011
THAILAND:	TWA	200 ppm (260 mg/m ³)	JAN1993
TURKEY:	TWA	200 ppm (260 mg/m ³)	JAN1993
UNITED KINGDOM:	TWA STEL	200 ppm (266 mg/m ³) 250 ppm (333 mg/m ³), skin	OCT2007
ARGENTINA, BULGARIA, COLOMBIA, JORDAN, SINGAPORE, VIETNAM		check ACGIH TLV	
UNITED STATES:	TLV-TWA TLV-STEL PEL-T-TWA PEL-T-STEL REL-TWA REL-STEL	200 ppm (260 mg/m ³), skin 250 ppm (325 mg/m ³), skin 200 ppm (260 mg/m ³), skin 250 ppm (325 mg/m ³), skin 200 ppm (260 mg/m ³), skin 250 ppm (325 mg/m ³), skin	ACGIH, 1996, 2013 OSHA 29,1910.1000 Z-1, 1994 NIOSH Recommended Exposure Limits
Remark: Headache / Eye damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Danger of cutaneous absorption. The value in mg/m ³ is approximate.			
<i>[Source: RTECS September 2013 Update and Raw Material Vendor Safety Data Sheet]</i>			

Additional information: The lists that were valid during the creation were used as basis.

The following personal protective equipment (PPE) is recommended to prevent blood or other potentially infectious or hazardous materials from reaching the user's work or street clothes, skin, mouth, mucous membranes, and eyes, and to prevent hazard inhalation, under normal conditions of use and for the time during which the protective equipment is utilized:

Ventilation:	Adequate lab ventilation is required.
Eye / Face Protection:	Wear ANSI approved safety glasses, goggles, or face shield with safety glasses or goggles. Contact lenses should not be worn when handling lab hazards.
Protective Gloves:	Suitable gloves must be worn at all times when handling kit reagents or patient samples to provide skin protection from splash and intermittent contact. Synthetic gloves such as nitrile, neoprene, and vinyl are recommended because they are sturdy, effective, and contain no natural latex ingredients associated with latex glove allergic reactions. Disposable (single use) gloves should be changed often and never reused. Wash hands thoroughly after removing gloves.
Protective Clothing:	Wear a lab coat, clinic jacket, gown, apron, and/or smock.
Respiratory Protection:	Do not breathe mist / vapors/vapours / spray.
Other:	All personal protective equipment should be removed before leaving the work area and placed in an appropriately designated area or container for storage, processing, decontamination or disposal. Keep away from heat / sparks / open flames / hot surfaces. — No smoking. Take precautionary measures against static discharge.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information is for the Methanol Component:

Appearance:	Clear, colorless, volatile liquid.		
Odor/odour:	Pungent, characteristic alcohol odor.	Odour/odor Threshold:	Not established.
pH:	Not available; <i>Methanol</i> is both a weak acid and a weak base.		
Boiling point:	64.5°C (148°F).	Melting Point:	-98°C (-144°F).
Flash point:	11°C (52°F). Flammable limits: LEL/LFL is <u>6%</u> ; UEL/UFL is <u>36%</u> @ 25°C.		
Evaporation rate:	5.9 (BuAc=1).		
Fire hazard:	Dangerous fire hazard. Material will readily ignite at room temperature. Vapors are heavier than air and may travel a considerable distance to ignition source and flash back. Closed containers may rupture violently when exposed to fire or excessive heat over a sufficient time.		
Vapor/vapour pressure	97.7 mm Hg (12.8 kPa) @ 20°C.		
Vapor/vapour density:	1.1 (Air = 1).		
Danger of explosion:	Closed containers may rupture violently when exposed to fire or excessive heat for sufficient time.		
Relative density:	0.791 @ 20°C.		
Solubility:	Fully miscible in water.		
Partition coefficient (n-octanol/water):	Log Pow: -0.77		
Autoignition temperature:	464°C (867°F).		
Decomposition temperature:	No applicable information was found.		
Viscosity:	No applicable information was found.		
Molecular mass:	32.04 g/mol		
Conversion factor:	1 ppm = 1.308 mg/m ³ ; 1 mg/m ³ = 0.765 ppm at 25°C (calculated).		
No other standard characteristics applicable to the identification or hazards of the product are known.			
<i>Source: RTECS September 2013 Update and Raw Material Vendor Safety Data Sheet</i>			

SECTION 10: STABILITY AND REACTIVITY INFORMATION

NOTE: Chemical reactions that could result in a hazardous situation (e.g., generation of flammable or toxic chemicals, fire, or detonation) are listed here. Although not intended to be complete, an overview of important reactions involving common chemicals is provided to assist in the development of safe work practices.

Chemical stability / Reactivity:	Stable under ordinary conditions of use and storage.
Conditions to avoid:	Keep away from heat, sparks and other sources of ignition and incompatible material. Keep away from heat / sparks / open flames / hot surfaces. — No smoking. Take precautionary measures against static discharge.
Materials to avoid:	Incompatible with strong oxidizing agents (e.g., bromine, chlorine, nitric acid, perchloric acid, perchlorates, sodium hypochlorite), hydrogen peroxide, mineral acids (e.g., sulfuric), acid anhydrides, acid chlorides, metals (e.g., sodium, potassium, powdered aluminum, or magnesium), isocyanates or phosphorus oxides—may react violently or explosively, with increased risk of fire or explosion. Dichloromethane becomes flammable in air at 27°C (100 kPa) in the presence of 0.6% <i>Methanol</i> .
Hazardous decomposition products:	Oxides of carbon may form when heated to decomposition.
Hazardous polymerization:	Has not been reported to occur.

SECTION 11: TOXICOLOGICAL INFORMATION -- GENERAL COMPOSITE

Refer to Sections 2 and 3 for the kit component concentrations. The composite toxicological information for this product is:

Acute Health Effects

Acute Toxicity:	Toxic by inhalation, in contact with skin and if swallowed. Causes damage to organs. Vapors/Vapours may cause drowsiness or dizziness. May cause injury, blindness, or death. However, industrial exposures are considered safe if concentrations are kept within the regulatory exposure limit of 200 ppm. Skin contact may result in dermatitis.
Primary Irritant Effect:	Contact can severely irritate skin and eyes; prolonged contact may cause eye injury.
Serious Eye Damage / Irritation:	Severely corrosive to eyes; contact can cause eye damage, including permanent impairment of vision or blindness.
STOT-Single Exposure:	No applicable information was found.
Aspiration Hazard:	No applicable information was found.
Other Acute Health Effects:	Targets the Central Nervous System (CNS), lungs, gastrointestinal tract, liver, kidneys, and blood (large or prolonged dosages). Risk of serious damage to eyes. Because these slides are made of glass, they could potentially pose a slight physical cutting hazard, especially if broken or chipped, so handle carefully, wear suitable gloves and/or other appropriate personal protective equipment, and follow Good Laboratory Practices. Do not handle broken slides with unprotected hands. <i>Note: The cytology brush is for use on non-pregnant women only.</i>

Chronic Toxicity

Respiratory or Skin Sensitization:	No sensitization effect known.
Carcinogenicity:	No carcinogenic effect known. No component, mixture, or constituent has been classified as a carcinogen by NTP, IARC, or OSHA.
Germ Cell Mutagenicity:	No applicable information was found.
Reproductive hazard:	Suspected reproductive toxin based on limited animal evidence.
STOT-Repeated Exposure:	No applicable information was found.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Concentrated Methanol [CAS# 67-56-1]*: Fish LC ₅₀ – Oncorhynchus mykiss (rainbow trout) – 19000 mg/l – 96 h – Cyprinus carpio (Carp) – 36000 mg/l – 48 h – Lepomis macrochirus (Bluegill) - 15400 mg/l - 96 h NOEC - Oryzias latipes - 7900 mg/l - 200 h Daphnia EC ₅₀ - Daphnia pulex (Water flea) – 10000 mg/l – 48 h Algae EC ₅₀ – Scenedesmus capricornutum (fresh water algae) - 22000 mg/l – 96 h <i>* Source: Raw Material Vendor Safety Data Sheet, RTECS and/or CCOHS Cheminfo</i>
Persistence and degradability:	Concentrated Methanol [CAS# 67-56-1]*: Aerobic - Result: 72 % - rapidly biodegradable <i>* Source: Raw Material Vendor Safety Data Sheet</i>

Bioaccumulation potential:	<p>Concentrated Methanol [CAS# 67-56-1]*: Cyprinus carpio (Carp) - 72 d at 20 °C Bioconcentration factor (BCF): 1.0 * Source: Raw Material Vendor Safety Data Sheet</p> <p>The Methanol in this product is expected to evaporate quickly, be readily degraded in air (photochemically), and to moderately biodegrade when released in water or soil.</p>
Mobility in soil:	Methanol will not adsorb on soil (Source: Raw Material Vendor Safety Data Sheet)
PBT and vPvB assessment:	No information found.
Other adverse effects:	<p>Concentrated Methanol [CAS# 67-56-1]*: Biochemical Oxygen Demand (BOD) - 600 - 1,120 mg/g Chemical Oxygen Demand (COD) - 1,420 mg/g * Source: Raw Material Vendor Safety Data Sheet</p> <p>An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.</p>

Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of hazardous and/or laboratory wastes, product, or packaging must be conducted in accordance with all applicable local, regional, national, and international regulations. This section specifies the general and United States RCRA requirements. Processing, use, or contamination of the kit components may change waste management requirements and options. Contact your Environmental Health & Safety Office for your specific disposal procedures.

Recommended Product Disposal:

Whatever flammable **Methanol** (closed-cup Flash Point of $\leq 60^{\circ}\text{C}/140^{\circ}\text{F}$) that cannot be saved for recovery or recycling requires disposal as a flammable hazardous waste in an RCRA approved waste facility (or equivalent). The US RCRA Waste Disposal Codes for Methanol are D001 (and U154 only if discarding the kit component as found in the kit); check your international, national, regional, and local ordinances accordingly.

Broken slides contaminated with blood or other humans source or potentially infectious material must be handled as **Sharps** per 29 CFR 1910.1030, OSHA Bloodborne Pathogen and other regulations; however, dispose of this material in accordance with regulation.

Do not allow undiluted product or large quantities of it to reach ground water or water course.

Recommended Unclean Packaging Disposal: Dispose of in accordance with all applicable local, regional, national, and international regulations.

SECTION 14: TRANSPORT INFORMATION

Shipping and disposal of product, packaging, and waste must be conducted in accordance with all applicable local, regional, national, and international regulations. Processing, use, or contamination of the kit components may change shipping requirements and options. Contact your Environmental Health & Safety Office for your specific shipping procedures.

Recommended Product Transportation: According to US DOT, IMDG, IATA and UN “Model Regulations”, the **Methanol** in the product must be transported as follows:

Component Methanol Fixative in this product contains undiluted **methanol**. Thus, any discarded kit component or waste generated from its use, resulting in a flammable liquid (closed-cup [ASTM Standard D-93-79 or D-93-80 or D-3278-78] Flash Point of $\leq 60.5^{\circ}\text{C}$) must be transported as follows:

Proper Shipping name: **Methanol** or **Methyl Alcohol**

Hazard Class or Division **3, 6.1**

UN ID Number: **UN 1230**

Packing group: **II**

Reportable Quantity (RQ): 5000 lbs

Marine pollutant: No



Poison Inhalation Hazard: No
 IMDG EMS-No: F-E, S-D

SECTION 15: REGULATORY INFORMATION

Composite HMIS Rating: Health: 2 Flammability: 3 Reactivity: 0

Carcinogenicity Categories: No component, mixture or constituent has been classified as a carcinogen by NTP (National Toxicity Program), IARC (International Agency for Research on Cancer), TLV-CAR (Threshold Limit Value established by ACGIH) or OSHA (Occupational Safety and Health Administration, U.S. Department of Labor).

National Regulations – Other Domestic / Foreign Laws:

Hazard communication compliance – This SDS contains the required information for preparation in accordance with the following GHS-based global regulations:

1. **United States** – Occupational Safety Health Administration *Hazard Communication Standard 29 CFR 1910.1200 (US HCS)*
2. **Taiwan** – Regulation **Lao-An-3-Tzu-No. 0960145703** / Published National Standard **CNS 15030**
3. **People’s Republic of China** – National Standard **GB/T 17519-2013, GB 30000-2013**
4. **New Zealand** – *Hazardous Substances and New Organisms Act 1996 (HSNO), Hazardous Substances (Classification) Regulations 2001 and Thresholds and Classifications January 2012* (as published in 2008)
 Composite HSNO Hazard Class:
 Class 3 - Flammability liquids: Subclass 3.1 Category C (FP (cc) ≥ 23 deg C but ≤ 60 deg C, UN PG II)
 Subclass 6.1 Category C (acutely toxic– GHS Category 3)
 Subclass 6.9 Category B (harmful to human target organs or systems)
5. **Mexico** – **Standard NMX-R-019-SCFI-2011**
6. **Korea** – **Public Notice 2008-26** for the hazard classification criteria for this product
7. **Japan** – Industrial Safety and Health Law (ISHL) National Standard **JIS Z7252, JIS Z7253**
8. **European Community (EC)** – applicable **CLP** related regulations (**2010/453/EC, 2008/1272/EC, 2006/1907/EC** etc.)
9. **Canada** – Standard *Workplace Hazardous Materials Information System (WHMIS-GHS) Canadian Standard* for the hazard classification criteria for this product.
 Composite WHMIS Hazards: Flammable Liquids, Acute Toxicity, Specific Target Organ Toxicity - Single Exposure
10. **Brazil** – Regulation **NRB 14725:2009**
11. **Australia** – Code of Practice *Preparation of Safety Data Sheets for Hazardous Chemicals* under Section 274 of the **Work Health and Safety (WHS) Act**.
 Australian Inventory of Chemical Substances (AICS): All pertinent ingredients are listed.
12. Analogous GHS-based global regulations

Inventory status

Country(s) or region	Inventory name	In Compliance (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) or European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

* A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

United States SARA:

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: The following components are subject to reporting levels established by SARA Title III, Section 313 in greater quantities than found in this product: **Methanol**, CAS-No. 67-56-1

Regulation (EC) No. 1907/2006 (REACH): Included in the Candidate List of Substances of Very High Concern (SVHC): **None**

California Proposition 65: WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE REPRODUCTIVE TOXICITY.

Chemicals known to cause reproductive Toxicity: **Methanol**, CAS# 65-56-1.

SECTION 16: OTHER INFORMATION

Hazard statement abbreviation(s):

Fla. Liq.	Flammable liquids
Acute Tox. – oral.	Acute toxicity – ingested (swallowed)
Acute Tox. – inhl.	Acute toxicity – inhaled
Acute Tox. – skn.	Acute toxicity – skin contact (dermal)
STOT SE	Specific target organ toxicity - single exposure
Cat.	Category
H225	Highly flammable liquid and vapour.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H370	Causes damage to organs.
P210 + P243	Keep away from heat / sparks / open flames / hot surfaces. — No smoking. Take precautionary measures against static discharge.
P241	Use explosion-proof electrical / ventilating / lighting / equipment.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P352	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308 + P311	IF exposed or concerned: Call a POISON CENTER or doctor/ physician.
P370 + P378	In case of fire: Alcohol- resistant fire-fighting foams are the extinguishing media of choice.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Spent methanol waste is considered a RCRA flammable hazardous waste, therefore this material and/or its container must be disposed of as hazardous waste, and in accordance with local, regional, national, and international regulations

 This test kit should be handled only by qualified personnel trained in laboratory procedures and familiar with their potential hazards. Specific warnings are given in the instructions for use. The absence of a specific warning should not be interpreted as an indication of safety.

For the collection and transport of direct clinical specimens for the detection of *Chlamydia trachomatis* by immunofluorescence.

Sources of key data used to compile the Safety Data Sheet:

- Raw Material Vendor Safety Data Sheets
- United Nations (UN) Globally Harmonized System (GHS)

United States OSHA Hazard Communication Standard (US HCS) 1910.1200
Canadian Workplace Hazardous Materials Information System (WHMIS)
Mexican Standard (NMX-R-019-SCFI-2011) [regulatory translation and summaries]
European Commission (EC) Regulations 2008/1272/EC, 2010/453/EC, 2006/1907/EC (EC CLP)
Australian Code of Practice – Preparation of Safety Data Sheets for Hazardous Chemicals (Section 274 of the *Work Health and Safety Act*)
New Zealand – Hazardous Substances and New Organisms Act 1996 (HSNO)
The People's Republic of China National Standard GB/T 17519-2013, GB 30000-2013 [regulatory translation if available and summaries]
Taiwan Regulation Lao-An-3-Tzu-No. 0960145703 / Published National Standard CNS 15030 [regulatory translation if available / summaries]
Korean Public Notice 2008-26 [regulatory translation if available and summaries]
Japanese Industrial Standard JIS Z7252, JIS Z7253 [regulatory translation if available and summaries]
Registry of Toxic Effects of Chemical Substances (RTECS)
 Canadian Centre for Occupational Health and Safety (CCOHS) *CHEMINFO* databases, etc.
 International Agency for Research on Cancer (IARC)
 American Conference of Governmental Industrial Hygienists (ACGIH)
 Occupational Safety and Health Administration, U.S. Department of Labor (OSHA)
 National Toxicity Program (NTP)
 National Institute for Occupational Safety and Health (NIOSH)
 World Health Organization. *Laboratory Biosafety Manual*
 CDC/NIH *Biosafety in Microbiological and Biomedical Laboratories*
Australian Inventory of Chemical Substances (ACIS) Listing
 California Proposition 65

Chemical safety assessment: Mixtures covered in this SDS were classified using the US HCS, EC CLP and/or UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Fourth edition unless otherwise specified.

Key / legend to abbreviations and acronyms used in the safety data sheet:

ACGIH – American Conference of Governmental Industrial Hygienists
 ACIS – Australian Inventory of Chemical Substances
 ANSI – American National Standards Institute
 CAS – Chemical Abstracts Service
 CCOHS – Canadian Centre for Occupational Health and Safety
 CDC – Centers for Disease Control, USA
 CNS – Central Nervous System
 DGSM – Dangerous Goods Safety Management Act
 DOT – Department of Transportation, USA
 EC₅₀ – half maximal effective concentration
 EC CLP – European Commission regulation for the Classification, Labeling and Packaging of chemical substances and mixtures
 EU – European Union
 GHS – Globally Harmonized System
 HNO – Hazard Not Otherwise Classified
 HSNO – Hazardous Substances and New Organisms Act 1996 (New Zealand)
 IARC – International Agency for Research on Cancer
 IATA – International Air Transport Association
 ICAO – International Civil Aviation Organization
 IDLH – Immediately Dangerous to Life or Health
 IMDG – International Maritime Dangerous Goods
 IPCS – International Programme on Chemical Safety
 ISHA – Industrial Safety and Health Act
 LC₅₀ – median lethal concentration, 50%
 LD₅₀ – median lethal dose, 50%
 NIOSH – National Institute for Occupational Safety and Health
 NTP – National Toxicity Program
 OEL – Occupational Exposure Limit
 PEL – Permissible Exposure Limit
 ppm – parts per million
 RTECS – Registry of Toxic Effects of Chemical Substances
 SDS – Safety Data Sheet
 STEL – Short Term Exposure Limit
 STOT – Specific Target Organ Toxicity
 TCCA – Toxic Chemical Control Act
 TLV/TWA – Threshold Limit Value / Time-Weighted Average
 UN – United Nations
 US EPA – United States Environmental Protection Agency, USA
 US HCS – Hazard Communication Standard, USA

US OSHA – Occupational Safety and Health Administration, U.S. Department of Labor
WHMIS – Workplace Hazardous Materials Information System, Canada
WHO – World Health Organization (United Nations)

Additional information: The lists that were valid during the creation were used as basis.

This Revision: Updated, reformatted and added new GHS information.

Bio-Rad Laboratories:

Department issuing SDS: Environmental Health and Safety.

Contact for general SDS information: Seattle Operations, Environmental Health & Safety, 6565 185th Ave. NE, Redmond, WA 98052, USA, Phone: 425-881-8300 (8 am to 5 pm PT), ro-sds@bio-rad.com

Customer support contact: Clinical Diagnostics Group, 4000 Alfred Nobel Drive, Hercules, CA 94547, USA
Phone: 1-800-224-6723, www.bio-rad.com/diagnostics

Contact 24/7/365: 1-800-424-9300

Contact Local Bio-Rad Agents for general information:

Australia , Bio-Rad Laboratories Pty. Ltd., Level 5, 446 Victoria Road, Gladesville NSW 2111 • Phone 61-2-9914-2800 • Telefax 61-2-9914-2888 • 24h/365d: 61-2-9914-2800
Austria , Bio-Rad Laboratories Ges.m.b.H., Hummelgasse 88/3-6, A-1130 Vienna • Phone 43-1-877-8901 • Telefax 43-1-876-5629 • 24h/365d: 43-1-877-89 01
Belgium , Bio-Rad S.A.-N.V. Begoniastraat 5, B-9810 Nazareth Eke • Phone 32-9-385-5511 • Telefax 32-9-385-6554 • 24h/365d: 09-385-5511
Brazil , Bio-Rad Laboratórios Brasil Ltda, Rua Alfredo Albano da Costa, 100, sl 1, 2 e 3, Lagoa Santa, CEP: 33.400-000 • Phone +55 (31)3689-6600 • Telefax +55 (31)3689-6611 • 24h/365d: (11) 99118 7957
Canada , Bio-Rad Laboratories, Ltd., 2403 Guénette Street, Montréal, Québec H4R 2E9 • Phone 1-514-334-4372 • Telefax 1-514-334-4415 • 24h/365d: 514-334-4372
China , Bio-Rad Laboratories Shanghai Ltd. 3rd Floor, #18 Dong Fang Road, Bldg E, Poly Plaza, Pudong, Shanghai, PRC 200120 • Phone 86-21-61698500 • Telefax 86-21-61698599 • 24h/365d: 86-21-63052255
Czech Republic , Bio-Rad spol. s r.o., Nad ostrovem 1119/7, 147 00 Prague 4 • Phone 420-241-430-532 • Telefax 420-241-431-642 • 24h/365d: 224 919 293
Denmark , Bio-Rad Laboratories, Symbion Science Park, Fruebjergvej 3, DK-2100 Copenhagen East • Phone +45-4452-1000 • Telefax +45-4452-1001 • 24h/365d: +45 4452 1000
Finland , Bio-Rad Laboratories, Linnanherrankuja 16, FIN-00950 Helsinki • Phone 358-9-804-22-00 • Telefax 358-9-7597-5010 • 24h/365d: +358 9 804 2200
France , Bio-Rad, 3 boulevard Raymond Poincaré, 92430 Marnes-la-Coquette • Phone 33-1-47-95-60-00 • Telefax 33-1-47-41-91-33 • 24h/365d: +33 (0)1 47 95 60 00
Germany , Bio-Rad Laboratories GmbH, Heidemannstrasse 164, D-80939 Munich • Phone +49-(0)89-318-840 • Telefax +49-(0)89-318-84100 • 24h/365d: 0049-89-31884-0
Greece , Bio-Rad Laboratories M.E.P.E, 2-4 Mesogeion Street, Fourth Floor 115 27 Athens • Phone 30-210-7774396 • Telefax 30-210-7774376
Hong Kong , Bio-Rad Pacific Ltd., Unit 1101, 11/F DCH Commercial Centre, 25 Westlands Road, Quarry Bay • Phone 852-2789-3300 • Telefax 852-2789-1290 • 24h/365d: 852-2789-3300
Hungary , Bio-Rad Hungary Ltd., H-1082 Budapest, Futo Street 47-53, Hungary • Phone +36-1-459-6100 • Telefax +36-1-459-6101 • 24h/365d: 36 1 459 6100
India , Bio-Rad Laboratories (India) Pvt. Ltd., Bio-Rad House, 86-87, Udyog Vihar, Phase IV, Gurgaon, Haryana 122 015 • Phone 1-800-180-1224 • Telefax 91-124-2398115 • 24h/365d: 91-124-2398112/113/114
Israel , Bio-Rad Laboratories Ltd., 14 Homa Street, New Industrial Area, Rishon Le Zion 75655 • Phone 972-3-9636050 • Telefax 972-3-9514129 • 24h/365d: 972-3-951-4127
Italy , Bio-Rad Laboratories S.r.l., Via Cellini 18/A, 20090 Segrate, Milan • Phone +39-02-216091 • Telefax +39-02-21609553 • 24h/365d: 02-216091
Japan , Bio-Rad Laboratories K.K., Tennoz Central Tower 20F, 2-2-24 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002 • Phone 81-3-6361-7070 • Telefax 81-3-5463-8481
Korea , Bio-Rad Korea Ltd., 10th Floor, Hyunjuk Building, 832-41, Gangnam-gu, Seoul 135-080 • Phone 82-2-3473-4460 • Telefax 82-2-3472-7003 • 24h/365d: 852-2789-3300
Mexico , Bio-Rad, S.A., Avenida Eugenia 197, Piso 10-A, Col. Narvarte, C.P. 03020 Mexico, D.F. • Phone +52 (55) 54 88 76 70 • Telefax +52 (55) 1107-7246 • 24h/365d: + 52 1 (55) 20 46 47 77
The Netherlands , Bio-Rad Laboratories B.V., Fokkerstraat 2-8, 3905 KV Veenendaal • Phone +31-318-540666 • Telefax +31-318-542216 • 24h/365d: 31-318-540666
New Zealand , Bio-Rad New Zealand, 189 Bush Road Unit B, Albany, Auckland • Phone 64-9-415-2280 • Telefax 64-9-415-2284 • 24h/365d: 64-9-415-2280
Norway , Bio-Rad Laboratories, Nydalsveien 33, 0484 Oslo • Phone +47-23-38-41-30 • Telefax +46(0)8-5551-2780 • 24h/365d: 47 23 38 41 30
Poland , Bio-Rad Polska Sp. z o.o., Nakielska Str. 3, 01-106 Warsaw • Phone 48-22-3319999 • Telefax 48-22-3319988 • 24h/365d: 48 (22) 331 99 85
Portugal , Bio-Rad Laboratories, Lda., Edifício Prime, Ave. Quinta Grande, 53 – Fracção 3B Alfragide 26114-521 Amadora • Phone 351-21-472-7700 • Telefax 351-21-472-7777 • 24h/365d: 351-21-472-7700
Russia , Bio-Rad Laboratorii, Russian Federation, Moscow, Varshavskoe sh., 9, Bldg., 1B • Phone: +7-495-721-1404 • Telefax +7-495-721-1412
Singapore , Bio-Rad Laboratories (Singapore) Pte. Ltd., 27 International Business Park, #01-02 iQuest @IBP, Singapore 609924 • Phone 65-6415-3170 • Telefax 65-6415-3189 • 24/7/365: 65-6415-3188
South Africa , Bio-Rad Laboratories (Pty) Ltd., 34 Bolton Road, Parkwood, Johannesburg 2193 • Phone 27-11-442-85-08 • Telefax 27-11-442-85-25
Spain , Bio-Rad Laboratories, S.A., C/ Caléndula, 95, Edificio M. Miniparc II, El Soto de la Moraleja, 28109 Madrid • Phone 34-91-590-5200 • Telefax 34-91-590-5211 • 24h/365d: 34-91-590-5200
Sweden , Bio-Rad Laboratories A.B., Box 1097, Solna Strandväg 3, SE-171 54, Solna • Phone +46-8-555-127-00 • Telefax +46-8-555-127-80 • 24h/365d: 46-8-55 51 27 00
Switzerland , Bio-Rad Laboratories AG, Pra Rond 23 CH-1785 Cressier • Phone +41 (0)26-674-55-05/06 • Telefax +41 (0)26-674-52-19 • Email: swiss@bio-rad.com • 24h/365d: 41-61-7179555

Taiwan, Bio-Rad Laboratories Taiwan Ltd., 14F-B, No. 126 Nan-King East Road, Sec. 4, Taipei, Taiwan 10546 R.O.C. • Phone 886-2-2578-7189 •
Telefax 886-2-2578-6890

Thailand, Bio-Rad Laboratories Ltd., 1st & 2nd Floor, Lumpini I Bldg., 239/2 Rajdamri Rd., Lumpini, Pathumwan, Bangkok 10330 • Phone 662-651-8311 •
Telefax 662-651-8312

United Kingdom, Bio-Rad Laboratories Ltd., Bio-Rad House, Maxted Road, Hemel Hempstead, Herts HP2 7DX • Phone +44 (0)20-8328-2000 •
Telefax +44 (0)20-8328-2550 • **24h/365d**: 020-8328-2000

This document was developed from information obtained from reputable sources, but does not purport to be all-inclusive. The data contained herein, which is based on our present knowledge and is intended for information purposes only, shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Regulatory requirements are subject to change and vary from one location to another; thus it is the buyer's responsibility to ensure that its activities comply with international, national, regional, and local laws and regulations. Bio-Rad Laboratories makes no warranty, expressed or implied, regarding the accuracy or completeness of these data or the results to be obtained from the use thereof. Since the use of this information and the conditions of use of the product are not within the control of Bio-Rad Laboratories, it is the user's obligation to determine the suitability of the information for the intended application and use appropriate safety procedures.