

SAFETY DATA SHEET (SDS)**SECTION 1: IDENTIFICATION OF PRODUCT (MIXTURE) AND SUPPLIER**

Product Name:	BioPlex 2200 Detector Clean Pack
Product Number:	666-0002 (30 mL)
Intended Use:	This product is intended for use with the Bio-Rad BioPlex 2200 System. Read and follow BioPlex 2200 System Instrument Manual instructions.
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. <i>Refer to section 16 for non-US local Bio-Rad agent contact information.</i>
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]
Australian Importer:	Australia: Bio-Rad Laboratories Pty. Ltd. , Level 5, 446 Victoria Road, Gladesville NSW 2111 Phone 61 2 9914 2800 Emergency numbers (24h/365d): 1 800 039 008 CHEMTREC Australia (Sydney): +(61)-290372994 sales.australia@bio-rad.com
New Zealand Importer:	Bio-Rad New Zealand , 189 Bush Road Unit B, Albany, Auckland Phone 64-9-415-2280 Emergency numbers (24h/365d): 800 2436 2255 CHEMTREC New Zealand (Auckland): +(64)-98010034 sales.nz@bio-rad.com
Canadian Importer:	Canada: Bio-Rad Laboratories, Ltd. 2403 Guénette Street, Montréal Québec H4R 2E9 Phone 1-514-334-4372 Emergency number (24h/365d): 1-514-334-4372 CHEMTREC: 1-800-424-9300 or 1-703-527-3887
Emergency Phone Number:	This SDS is listed with CHEMTREC 1-800-424-9300 or 1-703-527-3887 (US/CA) / +1-703-741-5970 (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. <i>Refer to section 16 for non-US local Bio-Rad agent contact information.</i>

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

The following information is furnished for those product hazardous constituents that require regulatory control or disclosure regardless of the concentration found in the product. Note that the information here is often based on data from the chemical raw material safety data sheet and literature (LD₅₀, exposure limits, etc.). Chemical constituents that do not require regulatory disclosure are not generally included here. This product contains a significantly diluted concentration in an aqueous solution, thus the assessment below has not considered the dilution reduction effect on the hazard. That hazard communication information is provided in Section 2 above. Some components were tested at the concentration found in the kit. In that case, the assessment is provided for the chemical dilution tested and the tested concentration will be provided at the beginning of the *Chemical Ingredient Data/Information* box. The UN GHS, US HCS, EC CLP and analogous GHS-based global regulation classifications were made according to the existing editions and expanded upon from company and literature data. Refer to section 16 for the full text of any *Comprehensive GHS-based Classification* statements coded below, for the list of sources utilized in the assessment and for the key / legend to abbreviations and acronyms.

Chemical Ingredient Data / Information

Chemical Ingredient: Isopropanol

Chemical concentrations found in this product: **70% v/v IPA in water**

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

CAS#: 67-63-0 (100%)	LD ₅₀ (oral-rat): 5045 mg/kg
EC No: 200-661-7 (100%)	LC ₅₀ (inhalation-rat): 16000 ppm/8H
Index No: 603-117-00-0	LD ₅₀ (skin-rabbit): 12800 mg/kg
RTECS#: NT8050000 (100%)	LC ₅₀ (96 hr-fish): Pimephales promelas (fathead minnow) –9640 mg/l
Chemical Formula: C ₃ H ₈ O; (CH ₃) ₂ CHOH (100%)	Molecular weight: 60.10 g/mol (100%)
Flash Point: 64.4°F / 18.3°C (100%)	
Flammable limits: LEL/LFL is ~2%; UEL/UFL is 13% vv in air.	
Synonyms/Trade Names: Isopropyl alcohol, 2- propanol, sec-propanol, IPA	

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

DANGER!

Fla. Liq. Cat. 2, Skin Irrit. Cat. 3, Eye Irrit. Cat. 2A, STOT SE, Cat. 3

H225, H316, H319, H336, EUH066

P210, P240, P241, P242, P243, P261, P264, P271, P280, P303 + P361 + P353, P304 + P340 + P312, P305 + P351 + P338, P337 + P313, P370 + P378, P403 + P233, P405, P501

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



NA: Not Applicable.

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

Related product information:

- ◆ Refer to section 16 for the full text of any *Comprehensive GHS-based Classification* statements, for the list of sources utilized in the assessment and for the key / legend to abbreviations and acronyms.
- ◆ No significant adverse health effects are expected by any route for the water in the kit volumes and concentrations present [chemical or dilution is not subject to GHS, US HCS, EC CLP or other GHS-based hazard labeling]:
- ◆ Do not eat, drink or smoke when using this product.
- ◆ Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before reuse.

SECTION 4: EMERGENCY FIRST AID MEASURES

Health Effects:	Symptoms of over exposure may include headache, dizziness, congestion and breathing difficulty. Causes serious eye irritation. Vapors may cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking. There is limited experimental evidence of teratogenic reproductive effects.
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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. If blood-to-blood contact occurs, or if more severe symptoms develop, consult a physician.
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.
Notes to Physician:	According to the OSHA Bloodborne Pathogens Standard (29 CFR 1910.1030), Universal Precautions apply. Persons handling human blood source samples should be offered hepatitis B vaccination prior to working with human source material.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media:	Use extinguishing media appropriate for the surrounding fire. Water may be ineffective because it will not cool <i>isopropanol</i> to below its flash point. Alcohol-resistant fire-fighting foams are the extinguishing media of choice.
Hazardous Combustion Products:	May emit toxic oxides of carbon and nitrogen under fire conditions.
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.
- ◆ Prevent material from entering sewers, waterways or confined spaces.
- ◆ Follow established laboratory policy and applicable WHO/CDC/NIH biosafety and/or WHO/OSHA hazardous material and/or equivalent guidelines for appropriate hazardous chemical and/or biological material spill response and cleanup. Avoid release to the environment.
- ◆ 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.
- ◆ Clean the spill area with water and wipe dry. Spills can also be absorbed with appropriate inert materials (e.g. spill pillows, absorbent pads, etc.), 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.
- ◆ 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 human source materials, specimens and equipment used to perform the operations as though they were capable of transmitting infectious disease, as per <i>Standard</i> and <i>Universal Precautions</i>.</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 in the product instructions / package insert provided with the test kit or in the instrument operation manual.. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store in a cool, dry area out of direct sunlight and away from heat and ignition sources. Keep quantities stored as small as possible.</p>

Caution, consult accompanying documents. Read and follow *BioPlex 2200 System Instrument Manual* instructions.

This product is intended for use with the Bio-Rad BioPlex 2200 System.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION MEASURES

Control Parameters – Component chemicals with limit values that require monitoring at the workplace:

<i>Concentrated Isopropanol [CAS# 67-63-0] - OEL:</i>			
AUSTRALIA:	TWA STEL	400 ppm (983 mg/m ³), 500 ppm (1230 mg/m ³)	2008
AUSTRIA:	MAK-TMW KZW	200 ppm (500 mg/m ³); 800 ppm (2000 mg/m ³)	2007
BELGIUM:	TWA STEL	400 ppm (997 mg/m ³) 500 ppm (1248 mg/m ³)	2002 2002
DENMARK:	TWA	200 ppm (490 mg/m ³)	2011
FRANCE:	VLE	400 ppm (980 mg/m ³)	2006
GERMANY:	MAK	200 ppm (500 mg/m ³)	2011
HUNGARY:	TWA STEL	500 mg/m ³ , 2000 mg/m ³ , Skin	2000
ICELAND:	TWA	200 ppm (490 mg/m ³), skin	2011
JAPAN:	CL	400 ppm (980 mg/m ³)	2012
KOREA:	TWA STEL	400 ppm (980 mg/m ³), 500 ppm (1225 mg/m ³)	2006
MEXICO:	TWA STEL	400 ppm (980 mg/m ³); 500 ppm (1225 mg/m ³)	2004
THE NETHERLANDS:	MAC-TGG	650 mg/m ³	2003
NEW ZEALAND:	TWA STEL	400 ppm (983 mg/m ³) 500 ppm (1230 mg/m ³)	2002
PERU:	TWA STEL	200 ppm (491 mg/m ³) 400 ppm (983 mg/m ³)	2005
THE PHILIPPINES:	TWA	400 ppm (980 mg/m ³)	1993

Concentrated Isopropanol [CAS# 67-63-0] - OEL:			
POLAND:	MAC(TWA) MAC(STEL)	900 mg/m ³ 1200 mg/m ³	1999
RUSSIA:	TWA STEL	10 mg/m ³ 50 mg/m ³	2003
SWEDEN:	TWA STEL	150 ppm (350 mg/m ³) 250 ppm (600 mg/m ³)	2005
SWITZERLAND:	MAK-W KZG-W	200 ppm (500 mg/m ³) 400 ppm (1000 mg/m ³)	2011
TURKEY:	TWA	200 ppm (500 mg/m ³)	1993
UNITED KINGDOM:	TWA STEL	400 ppm (999 mg/m ³) 500 ppm (1250 mg/m ³)	UK. EH40/2005 Workplace exposure limits
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 (492 mg/m ³) 400 ppm (980 mg/m ³) 400 ppm (980 mg/m ³) 500 ppm (1225 mg/m ³) 400 ppm (980 mg/m ³) 500 ppm (1225 mg/m ³)	ACGIH, 1996 OSHA 29,1910.1000 Z-1, 1994 NIOSH Recommended Exposure Limits
<i>*Remarks: Eye & Upper Respiratory Tract irritation Central Nervous System impairment Not classifiable as a human carcinogen. The value in mg/m³ is approximate.</i>			
<i>[Source: CCOHS CHEMINFO 2013, 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, or hazardous inhalation, under normal conditions of use and for the time during which the protective equipment is utilized:

Ventilation:	Adequate lab ventilation is required. Use only outdoors or in a well-ventilated area.
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 be reused. Wash hands thoroughly after removing gloves. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Protective Clothing:	Wear a lab coat, clinic jacket, gown, apron and/or smock. Disposable clothing is strongly recommended when handling biohazardous material.
Respiratory Protection:	Do not breathe mist / vapors/vapours / spray. In case of inadequate ventilation wear respiratory protection.
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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless, volatile liquid.		
Odor/odour:	Mild, characteristic alcohol odor.	Odor/odour Threshold:	Not available. *

pH:	Not available. *		
Boiling Point:	80-83°C / 176-181°F *	Melting Point:	Approximately -88°C *
Flash Point:	12°C (56.3°F) (CC) *. Flammable limits: LEL/LFL is 2.5% ; UEL/UFL is 12% *		
Evaporation rate:	2.8 (BuAc=1) *		
Fire Hazard:	Dangerous fire and explosion 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 for a sufficient amount of time.		
Vapor/vapour Pressure:	44 mm Hg at 25°C / 4.985 kPa*.		
Vapor/vapour Density:	2.1 (Air = 1) *		
Relative Density:	0.785 *		
Solubility:	Miscible in water.		
Partition coefficient (n-octanol/water):	Log Pow: 0.05 *		
Auto Igniting:	Approximately 399°C / 750°F*.		
Decomposition temperature:	No applicable information was found.		
Viscosity:	No applicable information was found.		
Danger of Explosion:	Dangerous fire and explosion 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 for a sufficient amount of time.		
Molecular mass:	60.1 gm/mole (1-Propanol)		
Conversion Factor:	1 ppm = 2.45 mg/L; 1 mg/L = 0.41 ppm (calculated).		
No Other Standard Characteristics applicable to the identification or hazards of the product are known.			
<i>Source: Raw Material vendor SDS, CCOHS databases and/or regulatory research</i>			
<i>* Source: 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. Many of these reactions can be done safely if specific control measures (e.g. cooling of the reaction) are in place. 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 and/or materials to Avoid:	Keep away from heat, sparks and other sources of ignition and incompatible materials. Dangerous fire and explosion 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.
Incompatible materials:	Keep Isopropanol away from heat, sparks and other sources of ignition, and strong oxidizers (may cause fire or explosion), acids, acid aldehydes, chlorine, hydrogen peroxide, ketones, aluminum, halogens and halogen compounds.
Hazardous decomposition products:	May emit toxic oxides of carbon and nitrogen under fire conditions.
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:	Vapors may cause drowsiness or dizziness.
Primary Irritant Effect:	Causes serious eye irritation.
Serious Eye Damage / Irritation:	Causes serious eye irritation.
STOT-Single Exposure:	No applicable information was found.
Aspiration Hazard:	No applicable information was found.
Other Acute Health Effects:	Can suppress the respiratory and central nervous systems. Vapors may cause drowsiness or dizziness. It is readily absorbed through the skin. Repeated exposure may cause skin dryness or cracking.

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, 2008/1272/EC (EC CLP) or OSHA.
Germ Cell Mutagenicity:	No applicable information was found.
Reproductive hazard:	There is limited experimental evidence of teratogenic reproductive effects.
STOT-Repeated Exposure:	No applicable information was found.

Additional Toxicological Information: The chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

This product was not tested. The following assessment is based on information for the ingredients.

Ecotoxicity:	<p>100% Isopropanol [CAS# 67-63-0]*: Fish LC₅₀ - Pimephales promelas (fathead minnow) - 9,640 mg/l - 96 h Fish LC₅₀ - Gambusia affinis (Mosquito fish) - 1400 mg/l - 96 h Daphnia EC₅₀ - Daphnia magna (Water flea) - 5,102 mg/l - 24 h Algea EC₅₀ - Scenedesmus subspicatus - > 2,000 mg/l - 72 h <i>*Source: Raw Material vendor SDS, RTECS, CCOHS databases and/or regulatory research</i></p>
Persistence and degradability:	No information found.
Bioaccumulation potential:	This material is not expected to significantly bioaccumulate or to be toxic to aquatic life.
Mobility in soil:	No information found.
PBT and vPvB assessment:	No information found.
Other adverse effects:	<p>The isopropanol in this product is expected to evaporate quickly, be readily degraded in air (photochemically) and to moderately biodegrade when released in water or soil (Expected half-life of 1-10 days).</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 **Isopropanol** ($\geq 24\%$ alcohol with closed-cup Flash Point of $\leq 60^{\circ}\text{C}$ / 140°F) that cannot be saved for recovery or recycling requires disposal as a flammable hazardous waste in a RCRA approved waste facility (or equivalent); the US RCRA Waste disposal Code is D001; check your international, national, regional and local ordinances accordingly.

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

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

SECTION 14: TRANSPORT INFORMATION

Shipping 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 Multi-Modal Transportation: Air and land transportation information for the discarded product when used as intended is:

Contains **60-80 % Isopropanol**, 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, ISO 2592 or equivalent) Flash Point of $\leq 60.5^{\circ}\text{C}$) must be transported as follows:

- Proper Shipping name and Description: **Isopropanol**
- Hazard Class or Division: **3**
- UN ID Number: **UN 1219**
- Packing group **II**
- IMDG EMS-No: **F-E, S-D**
- Marine Pollutant: **No**



Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15: REGULATORY INFORMATION

Composite HMIS Rating: Health: 1 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), OSHA (Occupational Health and Safety Administration, U.S. Department of Labor) or 2008/1272/EC (EC CLP).

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** – OSHA Published National Standard **CNS 15030** Classification and Labelling of Chemicals
3. **Singapore** – SS 586 - 2 : 2014
4. **Russia** – GOST 31340-2013, GOST 32419-2013, GOST 32423-2013, GOST 32424-2013, GOST 32425-2013, R 50.1.102-2014, R 50.1.101-2014
5. **People’s Republic of China** – National Standard **GB/T 17519-2013, GB 30000-2013**
6. **New Zealand** – *Hazardous Substances and New Organisms Act (HSNO)*
Composite HSNO Hazard Class: Subclass 3.1 Category B (FP (cc) < 23 deg C but BP > 35 deg C, UN PG II)
 Subclass 6.4 Category A (eye irritants)
 Subclass 6.9 Category B (harmful to human target organs or systems)

7. **Mexico – Standard NOM-018-STPS-2015, NMX-R-019-SCFI-2011**
8. **Korea – MoEL-Public Notice 2016-19, 2013-37 Standard for classification and labeling of chemical substances and MSDS**
9. **Japan – Industrial Safety and Health Law (ISHL) National Standard JIS Z7252, JIS Z7253**
10. **European Commission (EC) – applicable CLP related regulations (2010/453/EC, 2008/1272/EC, 2006/1907/EC etc.)**
11. **Canada – Hazardous Products Regulations (HPR) / Standard Workplace Hazardous Materials Information System (WHMIS-GHS) Canadian Standard** for the hazard classification criteria for this product.
Composite WHMIS Hazards: Flammable Liquids
 Serious Eye Damage
 Specific Target Organ Toxicity - Single Exposure
12. **Brazil – Regulation ABNT NRB 14725**
13. **Australia – Code of Practice Preparation of Safety Data Sheets for Hazardous Chemicals** under Section 274 of the **Work Health and Safety (WHS) Act**.
14. 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
European Union -	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
Taiwan	inventory - CSNN	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)

Regulation (EC) No. 1907/2006 (REACH):

Chemicals included in the Candidate List of Substances of Very High Concern (SVHC): **None**

REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

United States SARA (Superfund Amendments and Reauthorization Act of 1986):

SARA 302 (extremely hazardous substance) components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Japan – Industrial Safety and Health Law (ISHL) National Standard JIS Z7252, JIS Z7253

Classification JIS – listed in Class 1 - Listed substances: **None**.

Classification JIS – listed in Class 2 - Listed substances: **None**

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986):

The Product does not contain listed substances.

SECTION 16: OTHER INFORMATION

Hazard statement abbreviation(s):

Fla. Liq.	Flammable liquids
Skin Irrit.	Skin irritation
Eye Irrit.	Eye irritation
STOT SE	Specific target organ toxicity - single exposure
Cat.	Category
H225	Highly flammable liquid and vapour.
H316	Causes mild skin irritation.

H319	Causes serious eye irritation.
H336	Vapors may cause drowsiness or dizziness.
EUH066	It is readily absorbed through the skin. Repeated exposure may cause skin dryness or cracking.
P210	Keep away from heat / sparks / open flames / hot surfaces. — No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist / vapors/vapours / spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	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.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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	This material and its container must be disposed of as hazardous waste.
P501	Spent isopropanol 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.

This product is intended for use with the Bio-Rad BioPlex 2200 System.

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) Fifth edition unless otherwise specified.

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 (NOM-018-STPS-2015, 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 (HSNO)
- The People's Republic of China National Standard GB/T 17519-2013, GB 30000-2013 [regulatory translation if available and summaries]
- Taiwan OSHA Published National Standard CNS 15030 [regulatory translation if available / summaries]
- Korean MoEL-Public Notice 2016-19, 2013-37 [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 (AICS) Listing
- California Proposition 65

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

- ACGIH – American Conference of Governmental Industrial Hygienists
- AICS – 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
- DGSMA – 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
HNOC – 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%
MSDS – Material Safety Data Sheet
NIH – National Institute of Health
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 US HCS/GHS information.

Preparation date: **Refer to the date in the footer.**

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, FAX: 510-741-6373, www.bio-rad.com/diagnostics

Emergency Contact (24/7/365) – Chemtrec: 1-800-424-9300 or 1-703-527-3887 (USA/CAN) / +1-703-741-5970 (international – can be called collect). Refer below for in-country Chemtrec emergency contacts.

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 • Fax 61-2-9914-2888 •
Poison Information Centre: 13 11 26 (24 hours a day, anywhere in Australia); +61 13 11 26 • **24h/365d**: 1800 039 008 • Chemtrec (**24h/365d**): +(61)-290372994
Austria, Bio-Rad Laboratories Ges.m.b.H., Hummelgasse 88/3-6, A-1130 Vienna • Phone 43-1-877-8901 • Fax 43-1-876-5629 •
Poison Information Centre: +43 1 406 43 43 • Chemtrec (**24h/365d**): +(43)-13649237
Belgium, Bio-Rad S.A.-N.V. Winninglaan 3, BE-9140 Temse • Phone +32 (3)710-53-00 • Fax +32 (3)710-53-01 • Poison Information Centre / Belgisch Antigifcentrum:
Brussels: +32 70 245 245; Luxembourg: 070 245 245 / 8002 5500 (every day, 24 to 24 hours) • Chemtrec (**24h/365d**): +(32)-28083237
Brazil, Bio-Rad Laboratórios Brasil Ltda, Rua Alfredo Albano da Costa, 100 / Distrito Industrial, Lagoa Santa - MG, CEP: 33400-000 • Phone +55 (31)3689-6600 •
Fax +55 (31)3689-6611 • Contatos com a área de Suporte Técnico ao Cliente (CTS - Customer Technical Support): Telefones: 4003-0399 (Capital e Regiões Metropolitanas) e 0800-200-8900 (Outras Localidades) • Centro de Informações Toxicológicas: 0800 643 5252 •
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Fax 86-21-61698599 • National Poison Control Center: +86 10 831 323 45 • Chemtrec (**24h/365d**): 4001-204937
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- Israel**, Bio-Rad Laboratories Ltd., 14 Homa Street, New Industrial Area, Rishon Le Zion 75655 • Phone 972-3-9636050 • Fax 972-3-9514129 • Poison Information Center: 04-7771900 (24/7) or 4 854 1900 • Chemtrec (24h/365d): +(972)-37630639
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BioPlex 2200 Detector Clean Pack

[Catalog 666-0002]

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