

## SAFETY DATA SHEET

This safety data sheet complies with the requirements of: SS586: 2008 (2014)

Revision date 12-Jan-2023

#### **Revision Number** 3

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking Product identifier **Product Name** BioPlex 2200 Syphilis Total & RPR Calibrator Set

Other means of identification

12000651 Catalogue Number(s)

Pure substance/mixture Mixture

Contains 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone

#### Recommended use of the chemical and restrictions on use

**Recommended use** In vitro diagnostic Restricted to professional users Use according to package label instructions

Uses advised against

No information available

#### Details of the supplier of the safety data sheet

#### **Corporate Headquarters**

**Bio-Rad Laboratories Inc.** 1000 Alfred Nobel Drive Hercules, CA 94547 USA

**Manufacturer Bio-Rad Laboratories** 6565-185th Ave NE Redmond, WA 98052 USA

#### Legal Entity / Contact Address

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For further information, please contact

Technical Service	+66 2 652 8313
	ctsthailand@bio-rad.com

#### Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Singapore: 65-31581349

#### SECTION 2: Hazards identification

#### GHS Classification

Not a hazardous substance or mixture according to the Globally Harmonised System	(GHS):
Skin sensitisation	Category 1A

#### Label elements

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS):



Hazard statements H317 - May cause an allergic skin reaction

#### Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapours/spray Avoid release to the environment **Precautionary Statements - Response** If skin irritation or rash occurs: Get medical advice/attention Take off all contaminated clothing and wash it before reuse IF ON SKIN: Wash with plenty of water and soap **Precautionary Statements - Disposal** Dispose of contents/container to an approved waste disposal plant

#### Other hazards which do not result in classification

#### **SECTION 3: Composition/information on ingredients**

#### Substance

Not applicable

#### **Mixture**

Component	Description
Calibrator	Syphilis Total & RPR Calibrators: $5 \times 0.5$ mL vials. The calibrators are provided in a human serum matrix made from defibrinated plasma with added known analyte concentrations of Treponema pallidum and/ or reagin antibodies derived from human disease state plasma, and added preservatives including $\leq 0.3\%$ ProClin 300, $< 0.1\%$ sodium azide and $\leq 0.1\%$ sodium benzoate

Chemical name	EC No (EU Index No)	CAS No	Weight-%
Sodium benzoate	208-534-8	532-32-1	0.1 - 0.299
Sodium azide	247-852-1	26628-22-8	0.01 - 0.099
5-Chloro-2-methyl-3(2H)-isothia	-	55965-84-9	0.001 - 0.01
zolone, mixture with			
2-methyl-3(2H)-isothiazolone			

Non-hazardous Proprietary Balance ingredients

#### **SECTION 4: First aid measures**

#### Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air.
Eye contact	Call a doctor. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.		
Ingestion	Call a doctor.		
Most important symptoms and effect	cts, both acute and delayed		
Symptoms	Itching. Rashes. Hives.		
For emergency responders			
Self-protection of the first aider	No information available.		
Indication of any immediate medica	I attention and special treatment needed		
Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.		
SECTION 5: Firefighting m	easures		
Suitable Extinguishing Media			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Unsuitable extinguishing media	No information available.		
Specific hazards arising from the chemical			
Specific hazards arising from the chemical	Product is or contains a sensitiser. May cause sensitisation by skin contact.		
Special protective actions for fire-fighters			
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		
<b>SECTION 6: Accidental rele</b>	ease measures		
Personal precautions, protective eq	uipment and emergency procedures		
Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.		
For emergency responders	Use personal protection recommended in Section 8.		
Environmental precautions			
Environmental precautions	See Section 12 for additional Ecological Information.		
Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Clean contaminated surface thoroughly.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		

**Reference to other sections** See section 8 for more information. See section 13 for more information.

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.	

#### **SECTION 8: Exposure controls/personal protection**

#### Control parameters

#### **Occupational exposure limits**

Chemical name	Singapore	ACGIH TLV
Sodium benzoate 532-32-1		TWA: 2.5 mg/m <sup>3</sup> benzoate inhalable particulate matter S*
Sodium azide 26628-22-8	STEL: 0.29 mg/m <sup>3</sup> STEL: 0.11 ppm	Ceiling: 0.29 mg/m <sup>3</sup> Sodium azide Ceiling: 0.11 ppm Hydrazoic acid vapor

#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### Appropriate engineering controls

Engineering controls	Showers
	Eyewash stations
	Ventilation systems.

#### Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing.
Hand protection	Wear suitable gloves.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Environmental exposure controls	No information available.

#### **SECTION 9: Physical and chemical properties**

# Information on basic physical and chemical propertiesPhysical stateNo information availableAppearanceLiquidColouramber

Odour Odour threshold	No information available. No information available	
Property_	Values	Remarks • Method
pH Malting gradient / for a single gradient	Nie dete eventietele	
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapour pressure	No data available	None known
Vapour density	No data available	None known
Relative density	No data available	None known
Water solubility	Miscible in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information	No information available	

### **SECTION 10: Stability and reactivity**

<u>Reactivity</u>		
Reactivity	No information available.	
Chemical stability		
Stability	Stable under normal conditions.	
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.	
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid		
Conditions to avoid	None known based on information supplied.	
Incompatible materials		
Incompatible materials	None known based on information supplied.	
Hazardous decomposition products		
Hazardous decomposition products None known based on information supplied.		
SECTION 11: Toxicological information		

#### SECTION 11: Toxicological information

#### Information on likely routes of exposure

#### Product Information

Inhalation	Specific test data for the substance or mixture is not available.		
Eye contact	Specific test data for the substance or mixture is not available.		
Skin contact	May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).		
Ingestion	Specific test data for the substance or mixture is not available.		
Symptoms related to the physical, chemical and toxicological characteristics			
Symptoms	Itching. Rashes. Hives.		
Acute toxicity			
Numerical measures of toxicity			

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium benzoate	= 4070 mg/kg(Rat)		
Sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit)	0.054 - 0.52 mg/L (Rat)4 h
5-Chloro-2-methyl-3(2H)-isothia zolone, mixture with 2-methyl-3(2H)-isothiazolone	= 53 mg/kg (Rat)	= 87.12 mg/kg (Rabbit)	

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

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Classification not possible.

#### **SECTION 12: Ecological information**

#### **Ecotoxicity**

#### Ecotoxicity

Harmful to aquatic life with long lasting effects.

#### Unknown aquatic toxicity

Contains 0.005 % of components with unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Sodium benzoate	-	LC50: 420 - 558mg/L (96h,	EC50: <650mg/L (48h, Daphnia
		Pimephales promelas)	magna)
		LC50: >100mg/L (96h,	
		Pimephales promelas)	
Sodium azide	-	LC50: =0.8mg/L (96h,	-
		Oncorhynchus mykiss)	
		LC50: =0.7mg/L (96h, Lepomis	
		macrochirus)	
		LC50: =5.46mg/L (96h,	
		Pimephales promelas)	

#### Persistence and degradability

Persistence and degradability No information available.

#### **Bioaccumulative potential**

**Bioaccumulation** 

There is no data for this product.

Chemical name	Partition coefficient
Sodium benzoate	-2.13
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with	0.7
2-methyl-3(2H)-isothiazolone	

#### Mobility

Mobility in soil

No information available.

PBT and vPvB assessment

No information available

Chemical name	PBT and vPvB assessment
Sodium benzoate	The substance is not PBT / vPvB
Sodium azide	The substance is not PBT / vPvB
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with	The substance is not PBT / vPvB
2-methyl-3(2H)-isothiazolone	

#### Other adverse effects

Other adverse effects

No information available

#### SECTION 13: Disposal considerations

#### Waste treatment methods

Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.
Contaminated packaging	Do not reuse empty containers.

#### **SECTION 14: Transport information**

#### IMDG

Not regulated Transport in bulk according to No information available Annex II of MARPOL and the IBC

#### Code

<u>IATA</u>

Not regulated

#### **SECTION 15: Regulatory information**

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Singapore \_\_\_\_\_

#### Environmental Protection and Management (Hazardous Substances) Regulations

Verify that licence requirements are met.

Chemical name	Hazardous Substances	transport
Sodium azide	Exclusions: Air bag devices in motor	0kg
	vehicles	

#### **Environmental Public Health Act**

Dispose of waste product or used containers according to local regulations.

#### Hazardous Waste (Control of Export, Import and Transit) Act

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Take note that wastes may be subject to export, import, or transit controls pursuant to the Basel convention and/or local regulations implementing the Basel convention.

#### Poison

#### None Listed Workplace Safety and Health Act

See section 8 for national exposure control parameters. Comply with the health and safety at work laws.

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

#### International Inventories

Contact supplier for inventory compliance status

#### **SECTION 16: Other information**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section	on 8: EXPOSURE CONTROLS/PERSONAL	_ PROTECTION	
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization

#### Label elements

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

Issuing Date	Bio-Rad Laboratories, Environmental Health and Safety
Revision date	12-Jan-2023
Revision Note	Significant changes throughout SDS. Review all sections.

#### This safety data sheet complies with the requirements of: SS586: 2008 (2014)

#### Disclaimer

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

#### End of Safety Data Sheet