

# SAFETY DATA SHEET

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

**Legal Entity / Contact Address** 

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

**Product Name** PROTEUS NEUTRALISATION BUFFER C - #10254

Other means of identification

10254 Safety data sheet number

Mixture Pure substance/mixture

Recommended use of the chemical and restrictions on use

Recommended use For research use only

Uses advised against No information available

Details of the supplier of the safety data sheet

**Corporate Headquarters** Manufacturer

Bio-Rad Laboratories Inc. Bio-Rad 1000 Alfred Nobel Drive **Endeavour House** Hercules, CA 94547 Langford Business Park

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## **SECTION 2: Hazards identification**

#### GHS Classification

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS): SS586: 2008 (2014)

#### Label elements

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS): SS586: 2008 (2014)

Other hazards which do not result in classification

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## SECTION 3: Composition/information on ingredients

#### Substance

Not applicable

#### **Mixture**

Chemical name	EC No (EU Index No)	CAS No	Weight-%
Sodium azide	(011-004-00-7)	26628-22-8	0.1 - 0.299
	247-852-1		

Non-hazardous Proprietary Balance

ingredients

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

#### Description of first aid measures

**General advice** No hazards which require special first aid measures.

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

Skin contact In the case of skin irritation or allergic reactions see a doctor. Wash skin with soap and

water.

**Ingestion** Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

For emergency responders

**Self-protection of the first aider**No information available.

Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

## **SECTION 5: Firefighting measures**

**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 None known.

chemical

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.

## **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

**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** Pick up and transfer to properly labelled containers.

**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** Ensure adequate ventilation.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

## SECTION 8: Exposure controls/personal protection

## **Control parameters**

#### Occupational exposure limits

Chemical name	Singapore	ACGIH TLV
Sodium azide	STEL: 0.29 mg/m <sup>3</sup>	Ceiling: 0.29 mg/m³ Sodium azide
26628-22-8	STEL: 0.11 ppm	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).

Wear suitable protective clothing. Skin and body protection

Wear suitable gloves. **Hand protection** 

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 properties

**Physical state** Liquid

**Appearance** Clear to semi-clear

Colour Varies

Odour No information available. **Odour threshold** No information available

**Property** Values Remarks • Method

None known pН Melting point / freezing point No data available None known No data available None known Boiling point / boiling range No data available None known Flash point No data available None known **Evaporation rate** 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 Soluble in water

Solubility(ies) No data available None known No data available **Partition coefficient** None known **Autoignition temperature** No data available None known None known **Decomposition temperature** 

Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known

No information available Other information

### SECTION 10: Stability and reactivity

Reactivity

No information available. Reactivity

**Chemical stability** 

Stability Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge

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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

#### 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 Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

No information available. **Symptoms** 

**Acute toxicity** 

**Numerical measures of toxicity** 

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

ATEmix (oral) 18,310.60 mg/kg ATEmix (dermal) 14,136.30 mg/kg

No information available Oral LD50 No information available **Dermal LD50 Inhalation LC50** No information available

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)		
1,3-Propanediol,	= 5900 mg/kg (Rat)	> 5000 mg/kg (Rat)	
2-amino-2-(hydroxymethyl)-			
Sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit)	0.054 - 0.52 mg/L (Rat) 4 h

### 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** Based on available data, the classification criteria are not met.

**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** The environmental impact of this product has not been fully investigated.

**Unknown aquatic toxicity**Contains 0 % of components with unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
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** No information available.

**Mobility** 

Mobility in soil No information available.

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Sodium azide	The substance is not PBT / vPvB

### Other adverse effects

Other adverse effects No information available

## **SECTION 13: Disposal considerations**

#### Waste treatment methods

Waste from residues/unused Dispose of waste in accordance with environmental legislation. Dispose of in accordance

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products with local regulations.

Contaminated packaging Do not reuse empty containers.

## **SECTION 14: Transport information**

**IMDG** Not regulated

No information available Transport in bulk according to

Annex II of MARPOL and the IBC

Code

IATA 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 vehicles	0kg

#### **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 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**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

**Issuing Date** Bio-Rad Laboratories, Environmental Health and Safety

22-Nov-2021 **Revision date** 

**Revision Note** Significant changes throughout SDS. Review all sections.

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#### 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**