

SAFETY DATA SHEET

Legal Entity / Contact Address

Bio-Rad Laboratories Pty Ltd

189 Bush Road

New Zealand

Albany Auckland

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

Product identifier

Product Name ANTIBODY PREPARATION - #10322

Other means of identification

Safety data sheet number 10322

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

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SECTION 2: Hazards identification

GHS Classification

Acute aquatic toxicity Category 3 (HSNO - 9.1D)

Label elements

Hazard statements

H402 - Harmful to aquatic life

Precautionary Statements - Prevention

Avoid release to the environment

Precautionary Statements - Response

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

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Other hazards which do not result in classification

SECTION 3: Composition/information on ingredients

Chemical name	CAS No	Weight-%
1,2,3-Propanetriol	56-81-5	50 - 100
Water	7732-18-5	35 - 50
Magnesium chloride	7786-30-3	0.3 - 0.999
Sodium chloride	7647-14-5	0.3 - 0.999
Sodium azide	26628-22-8	0.1 - 0.299
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-	77-86-1	0.1 - 0.299
Antibodies	NO-CAS-81	0.1 - 0.299

Non-hazardous ingredients	Proprietary	Balance
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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.

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

Consult a doctor.

Skin contact Wash skin with soap and water.

Rinse mouth thoroughly with water. Ingestion

Most important symptoms and effects, both acute and delayed

Symptoms 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

None known. Specific hazards arising from the

chemical

Special protective actions for fire-fighters

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Special protective equipment 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 See section 8 for more information.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

See Section 12 for additional Ecological Information. **Environmental precautions**

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Pick up and transfer to properly labelled containers. Methods for cleaning up

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

SECTION 7: Handling and storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Advice on safe handling

Conditions for safe storage, including any incompatibilities

Storage Conditions Store according to product and label instructions.

Incompatible materials Metals.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	New Zealand	ACGIH TLV	United Kingdom	Australia
1,2,3-Propanetriol	TWA: 10 mg/m ³		TWA: 10 mg/m ³	10 mg/m ³
56-81-5	-		STEL: 30 mg/m ³	
Sodium azide	Ceiling: 0.11 ppm	Ceiling: 0.29 mg/m ³	TWA: 0.1 mg/m ³	0.11 ppm Peak
26628-22-8	Ceiling: 0.29 mg/m ³	Sodium azide	STEL: 0.3 mg/m ³	0.3 mg/m³ Peak
		Ceiling: 0.11 ppm	Sk*	
		Hydrazoic acid vapor		

Biological occupational exposure This product, as supplied, does not contain any hazardous materials with biological limits

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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).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

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

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

Remarks • Method Property Values

None known No data available Melting point / freezing point None known Boiling point / boiling range No data available None known No data available Flash point None known No data available **Evaporation rate** None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

No data available Lower flammability or explosive

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 No data available **Autoignition temperature** None known None known **Decomposition temperature** Kinematic viscosity No data available None known

Dynamic viscosity No data available None known

Explosive properties Not applicable. **Oxidising properties** Not applicable.

Other information

Molecular weight Not applicable Not applicable **VOC Content (%)**

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SECTION 10: Stability and reactivity

Reactivity

Reactivity No information available.

Chemical stability

Stable under normal conditions. Stability

Explosion data

Sensitivity to mechanical impact None.

None. Sensitivity to static discharge

Possibility of hazardous reactions

Possibility of hazardous reactions Avoid contact with metals. This product contains Sodium azide. Sodium azide can react

with Copper, Brass, Lead, and solder in piping systems to form explosive compounds and

toxic gases.

Conditions to avoid

None known based on information supplied. Conditions to avoid

Incompatible materials

Incompatible materials Metals.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information

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

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

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.

No information available. **Symptoms**

Acute toxicity

Numerical measures of toxicity

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

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Inhalation LC50

No information available

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,2,3-Propanetriol	= 12600 mg/kg (Rat)	> 10 g/kg(Rabbit)	> 570 mg/m³(Rat)1 h
Water	> 90 mL/kg (Rat)	-	-
Magnesium chloride	= 2800 mg/kg (Rat)	-	-
Sodium chloride	= 3 g/kg (Rat)	> 10 g/kg(Rabbit)	> 42 g/m³(Rat)1 h
Sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit) = 50 mg/kg (Rat)	-
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-	= 5900 mg/kg (Rat)	-	-

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.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

Based on available data, the classification criteria are not met. Reproductive toxicity

STOT - single exposure Respiratory irritation Narcotic effects

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

STOT - repeated exposure Based on available data, the classification criteria are not met.

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

SECTION 12: Ecological information

Ecotoxicity

Ecotoxicity Harmful to aquatic life.

Aquatic ecotoxicity

0.14259 % of the mixture consists of component(s) of unknown hazards to the aquatic Unknown aquatic toxicity

environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
1,2,3-Propanetriol	-	LC50: 51 - 57mL/L (96h,	EC50: >500mg/L (24h, Daphnia
•		Oncorhynchus mykiss)	magna)
Magnesium chloride	EC50: >82.7mg/L (72h,	LC50: 1970 - 3880mg/L (96h,	EC50: =140mg/L (48h, Daphnia
Ĭ	Pseudokirchneriella subcapitata)	Pimephales promelas)	magna)
		LC50: =4210mg/L (96h, Gambusia	EC50: =1400mg/L (24h, Daphnia
		affinis)	magna)
Sodium chloride	-	LC50: 4747 - 7824mg/L (96h,	EC50: 340.7 - 469.2mg/L (48h,
		Oncorhynchus mykiss)	Daphnia magna)
		LC50: 5560 - 6080mg/L (96h,	EC50: =1000mg/L (48h, Daphnia
		Lepomis macrochirus)	magna)
		LC50: 6020 - 7070mg/L (96h,	

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	Pimephales promelas)
	LC50: 6420 - 6700mg/L (96h,
	Pimephales promelas)
	LC50: =12946mg/L (96h, Lepomis
	macrochirus)
	LC50: =7050mg/L (96h, Pimephales
	promelas)
Sodium azide	- LC50: =0.7mg/L (96h, Lepomis -
	macrochirus)
	LC50: =0.8mg/L (96h,
	Oncorhynchus mykiss)
	LC50: =5.46mg/L (96h, Pimephales
	promelas)

Terrestrial ecotoxicty

There is no data for this product.

Chemical name	Earthworm	Avian	Honeybees
Sodium chloride	Acute Toxicity: LC50 0.1 - 1	-	-
	mg/cm2 (Eisenia foetida, 48 h		
	filter paper)		

Persistence and degradability

No information available.

Bioaccumulative potential

Bioaccumulation

There is no data for this product.

Chemical name	Partition coefficient
1,2,3-Propanetriol	-1.76

Mobility in soil

Other adverse effects

No information available.

SECTION 13: Disposal considerations

Waste treatment methods

Contaminated packaging

For packages that have been in direct contact with hazardous substances, the person must ensure that the package is rendered incapable of containing any substance. It must be disposed of in a manner that is consistent with the requirements for disposal of the substance that it contained, taking into account the material the package is manufactured from

Packages may only be reused or recycled if the package has been treated to remove any residual contents of the hazardous substance (class 1, 2, 3, 4, or 5); or the contents of the residue in the package are below the threshold for the substance to be classified as hazardous (class 6, 8, or 9 substance)

SECTION 14: Transport information

IATA Not regulated

IMDG Not regulated

Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available

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SECTION 15: Regulatory information

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

National regulations

New Zealand

Chemical name	New Zealand HSNO Chemical Classification
Magnesium chloride - 7786-30-3	6.1E (All),6.1E (O),6.4A
Sodium chloride - 7647-14-5	6.1E (All),6.1E (O),6.4A
Sodium azide - 26628-22-8	6.1B (All),6.1B (O),9.1A (All),9.1A (A),9.1A (C),9.1A (F),9.3A 6.1B (All),6.1B (O),9.1B (All),9.1B (A),9.1B (C),9.1B (F),9.3B 6.1B (All),6.1B (O),9.1C (All),9.1C (A),9.1C (C),9.1C (F),9.3C
1,3-Propanediol, 2-amino-2-(hydroxymethyl) 77-86-1	6.1E (I),6.3A,6.4A

National regulations

See Section 8 for any applicable tolerable exposure limits and environmental exposure

limits

Certified handlers, tracking and controlled substance license requirements

Certified handlers are required for some substances. This includes for substances requiring a controlled substance license, including Class 1 explosives, vertebrate toxic agents (9.3A, B, C), and certain fumigants. Class 6.1A and 6.1B substances such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information

Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information

Controlled substance licenses are required to possess certain class 1 (explosive) and class 6 (vertebrate toxic agents or fumigants) substances. See Part 7 of the Health and Safety at Work Regulation 2017 for more information

EPA New Zealand HSNO approval code or group standard

Not applicable

International Inventories

Contact supplier for inventory compliance status

Legend:

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

SECTION 16: Other information

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

Revision date 21-Jun-2021

Revision Note Significant changes throughout SDS. Review all sections.

Key or legend to abbreviations and acronyms used in the safety data sheet Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

C Carcinogen

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

Disclaimer

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End of Safety Data Sheet