## KIT SAFETY DATA SHEET



Kit Product Name Bio-Plex Pro Human Cytokine Screening Panel, Singleplex Kit

**Kit Catalogue Number(s)** 171B5001M, 171B5002M, 171B5003M, 171B5004M, 171B5005M, 171B5006M, 171B5007M, 171B5008M, 171B5009M, 171B5010M, 171B5011M, 171B5012M,

171B5013M, 171B5014M, 171B5015M, 171B5016M, 171B5017M, 171B5018M, 171B5019M, 171B5020M, 171B5021M, 171B5022M, 171B5023M, 171B5024M, 171B5025M, 171B5026M, 171B5027M, 171B6001M, 171B6002M, 171B6003M, 171B6004M, 171B6005M, 171B6006M, 171B6007M, 171B6008M, 171B6009M,

171B6010M, 171B6011M, 171B6012M, 171B6013M, 171B6014M, 171B6015M, 171B6016M, 171B6017M, 171B6018M, 171B6019M, 171B6020M, 171B6021M,

171B6022M, 171B6023M

Revision date 19-Oct-2021

## **Kit Contents**

Catalogue Number(s)	Product Name
10014716, 10014717, 10014718, 10014719, 10014720, 10014721,	Bio-Plex Pro Human Cytokine Screening Panel, Bead
10014722, 10014723, 10014724, 10014725, 10014726, 10014727,	Blend Singleplex
10014728, 10014729, 10014730, 10014731, 10014732, 10014733,	
10014734, 10014735, 10014736, 10014737, 10014738, 10014739,	
10014740, 10014741, 10014742, 10014743, 10014744, 10014745,	
10014746, 10014747, 10014748, 10014749, 10014750, 10014751,	
10014752, 10014753, 10014754, 10014755, 10014756, 10014757,	
10014758, 10014759, 10014760, 10014761, 10014762, 10014763,	
10014764, 10015032	
10014945, 10014946, 10014947, 10014948, 10014949, 10014950,	Bio-Plex Pro Human Cytokine Screening Panel, Detection
10014951, 10014952, 10014953, 10014954, 10014955, 10014956,	Antibodies Blend Singleplex
10014957, 10014958, 10014959, 10014960, 10014961, 10014962,	
10014963, 10014964, 10014965, 10014966, 10014967, 10014968,	
10014969, 10014970, 10014971, 10014972, 10014973, 10014974,	
10014975, 10014976, 10014977, 10014978, 10014979, 10014980,	
10014981, 10014982, 10014983, 10014984, 10014985, 10014986,	
10014987, 10014988, 10014989, 10014990, 10014991, 10014992,	
10014993, 10015073	

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## SAFETY DATA SHEET

Revision date 25-Mar-2021 Revision Number 1

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

### Product identifier

Product Name Bio-Plex Pro Human Cytokine Screening Panel, Bead Blend Singleplex

Catalogue Number(s) 10014716, 10014717, 10014718, 10014719, 10014720, 10014721, 10014722, 10014723,

10014724, 10014725, 10014726, 10014727, 10014728, 10014729, 10014730, 10014731, 10014732, 10014733, 10014734, 10014735, 10014736, 10014737, 10014738, 10014739, 10014740, 10014741, 10014742, 10014743, 10014744, 10014745, 10014746, 10014747, 10014748, 10014749, 10014750, 10014751, 10014752, 10014753, 10014754, 10014755, 10014756, 10014757, 10014758, 10014759, 10014760, 10014761, 10014762, 10014763,

10014764, 10015032

#### Other means of identification

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

Recommended use Laboratory chemicals

Uses advised against No information available

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

Corporate HeadquartersManufacturerLegal Entity / Contact AddressBio-Rad Laboratories Inc.Bio-Rad Laboratories, Life Science GroupBio-Rad Laboratories Pty Ltd

1000 Alfred Nobel Drive2000 Alfred Nobel Drive189 Bush RoadHercules, CA 94547Hercules, California 94547Albany AucklandUSAUSANew Zealand

**Technical Service** +64 9 415 2280 or 0508 805 500

sales.nz@bio-rad.com

## Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC New Zealand: 64-98010034

## **SECTION 2: Hazards identification**

#### GHS Classification

Skin sensitisation	Category 1A
Acute aquatic toxicity	Category 3 (HSNO - 9.1D)
Chronic aquatic toxicity	Category 3 (HSNO - 9.1C)

#### Label elements



Signal word Warning

#### **Hazard statements**

H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapours/spray
Contaminated work clothing should not be allowed out of the workplace
Avoid release to the environment
Wear protective gloves/protective clothing/eye protection/face protection

#### Skin

IF ON SKIN: Wash with plenty of water and soap
If skin irritation or rash occurs: Get medical advice/attention
Take off all contaminated clothing and wash it before reuse

### **Precautionary Statements - Disposal**

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

Other hazards which do not result in classification

## SECTION 3: Composition/information on ingredients

Chemical name	CAS No	Weight-%
Water	7732-18-5	50 - 100
Magnetic Beads	NO-CAS-23	20 - 35
Trade secret	-	2.5 - 5
Trade secret	-	2.5 - 5
Trade secret	-	1 - 2.5
Modified Glycol	NO-CAS-54	0.1 - 0.299
Trade secret	-	0.1 - 0.299
Trade secret	-	0.1 - 0.299
Antibodies	NO-CAS-81	0.1 - 0.299
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone	55965-84-9	0.001 - 0.01
Modified alkyl carboxylate	NO-CAS-53	0.001 - 0.01
Non-hazardous ingredients	Proprietary	Balance

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

Consult a doctor.

**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** Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed

- Golden

**Symptoms** Itching. Rashes. Hives.

Indication of any immediate medical attention and special treatment needed

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

## **SECTION 5: Firefighting measures**

Suitable Extinguishing Media

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 for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

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gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment 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.

**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.

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

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.

### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. **Storage Conditions** 

Keep out of the reach of children. Store according to product and label instructions.

Metals. Incompatible materials

## SECTION 8: Exposure controls/personal protection

Control parameters

**Exposure Limits** 

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).

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** Suspension Colour colourless Odour Odourless.

**Odour threshold** No information available

Values Remarks • Method **Property** 

рΗ None known None known

No data available Melting point / freezing point

Boiling point / boiling range 100 °C

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 pressureNo data availableNone knownVapour densityNo data availableNone knownRelative densityNo data availableNone known

No data available

Water solubility
Solubility(ies)
Partition coefficient
No data available
No data available

Autoignition temperature Decomposition temperature

Kinematic viscosity

No data available

Dynamic viscosity

No data available

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

Other information

Molecular weight
VOC Content (%)
Not applicable
Not applicable

## SECTION 10: Stability and reactivity

Reactivity

**Reactivity** No information available.

Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

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

None known

None known

None known

None known

None known

None known

toxic gases.

Conditions to avoid

**Conditions to avoid**None known based on information supplied.

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.

**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 Itching. Rashes. Hives.

**Acute toxicity** 

Numerical measures of toxicity

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

**ATEmix (oral)** 39,855.00 mg/kg

**Component Information** 

Component information			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Trade secret	= 3 g/kg (Rat)	> 10 g/kg(Rabbit)	> 42 g/m³(Rat)1 h
Trade secret	= 5900 mg/kg (Rat)	-	-
Trade secret	= 37000 mg/kg (Rat) = 36700 μL/kg (Rat)	-	-
Trade secret	> 3 g/kg (Rat)	-	-
5-Chloro-2-methyl-3(2H)-isothia zolone, mixture with 2-methyl-3(2H)-isothiazolone	= 53 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.

Respiratory or skin sensitisation May cause sensitisation by skin contact

**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
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.

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

## SECTION 12: Ecological information

STOT - repeated exposure

Ecotoxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Aquatic ecotoxicity** 

**Unknown aquatic toxicity** 0 % of the mixture consists of component(s) of unknown hazards to the aquatic

environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Trade secret	-	LC50: 4747 - 7824mg/L (96h, Oncorhynchus mykiss) LC50: 5560 - 6080mg/L (96h, Lepomis macrochirus) LC50: 6020 - 7070mg/L (96h, Pimephales promelas) LC50: 6420 - 6700mg/L (96h, Pimephales promelas)	EC50: 340.7 - 469.2mg/L (48h, Daphnia magna) EC50: =1000mg/L (48h, Daphnia magna)
		LC50: =12946mg/L (96h, Lepomis macrochirus) LC50: =7050mg/L (96h, Pimephales promelas)	

**Terrestrial ecotoxicty** 

There is no data for this product.

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

Persistence and degradability

No information available.

Bioaccumulative potential

**Bioaccumulation** No information available.

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**

<u>IATA</u>

**IMDG** Not regulated

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

No information available

## 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
Trade secret -	6.1E (All),6.1E (O),6.4A
Trade secret -	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 25-Mar-2021

**Revision Note** SDS sections updated. 1.

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

# Bio-Plex Pro Human Cytokine Screening Panel, Bead Blend Singleplex

- Golden

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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**

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** 



## SAFETY DATA SHEET

Revision date 25-Mar-2021 Revision Number 1

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

## Product identifier

Product Name Bio-Plex Pro Human Cytokine Screening Panel, Detection Antibodies Blend Singleplex

Catalogue Number(s) 10014945, 10014946, 10014947, 10014948, 10014949, 10014950, 10014951, 10014952,

10014953, 10014954, 10014955, 10014956, 10014957, 10014958, 10014959, 10014960, 10014961, 10014962, 10014963, 10014964, 10014965, 10014966, 10014967, 10014968, 10014969, 10014970, 10014971, 10014972, 10014973, 10014974, 10014975, 10014976, 10014977, 10014978, 10014979, 10014980, 10014981, 10014982, 10014983, 10014984, 10014985, 10014986, 10014987, 10014988, 10014989, 10014990, 10014991, 10014992,

10014993, 10015073

#### Other means of identification

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

Recommended use Laboratory chemicals

Uses advised against No information available

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

Corporate HeadquartersManufacturerLegal Entity / Contact AddressBio-Rad Laboratories Inc.Bio-Rad Laboratories, Life Science GroupBio-Rad Laboratories Pty Ltd

1000 Alfred Nobel Drive2000 Alfred Nobel Drive189 Bush RoadHercules, CA 94547Hercules, California 94547Albany AucklandUSAUSANew Zealand

**Technical Service** +64 9 415 2280 or 0508 805 500

sales.nz@bio-rad.com

## Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC New Zealand: 64-98010034

## **SECTION 2: Hazards identification**

#### GHS Classification

Skin sensitisation	Category 1A
Acute aquatic toxicity	Category 3 (HSNO - 9.1D)
Chronic aquatic toxicity	Category 3 (HSNO - 9.1C)

#### Label elements



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## Signal word

Warning

#### **Hazard statements**

H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapours/spray Contaminated work clothing should not be allowed out of the workplace Avoid release to the environment Wear protective gloves/protective clothing/eye protection/face protection

#### Skin

IF ON SKIN: Wash with plenty of water and soap
If skin irritation or rash occurs: Get medical advice/attention
Take off all contaminated clothing and wash it before reuse

### **Precautionary Statements - Disposal**

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

## Other hazards which do not result in classification

Contains animal source material (Goat) (Cattle) (Mouse)

## SECTION 3: Composition/information on ingredients

Chemical name	CAS No	Weight-%
Water	7732-18-5	50 - 100
Animal Source Antibody	NO-CAS-90	10 - 20
Trade secret	-	0.3 - 0.999
Sodium phosphate dibasic	7558-79-4	0.1 - 0.299
Modified Glycol	NO-CAS-54	0.1 - 0.299
Trade secret	-	0.1 - 0.299
Trade secret	-	0.01 - 0.099
Sodium azide	26628-22-8	0.01 - 0.099
Trade secret	-	0.001 - 0.01
Trade secret	-	0.001 - 0.01
Antibodies	NO-CAS-81	0.001 - 0.01
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture	55965-84-9	0.001 - 0.01
with 2-methyl-3(2H)-isothiazolone		
Modified alkyl carboxylate	NO-CAS-53	0.001 - 0.01
Animal Source Material (Mouse)	NO-CAS-46	< 0.001
Animal Source Material (Goat)	NO-CAS-17	< 0.001
Animal Source Material (Cattle)	NO-CAS-44	< 0.001
Non-hazardous ingredients	Proprietary	Balance

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

Consult a doctor.

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.

Rinse mouth thoroughly with water. Ingestion

Most important symptoms and effects, both acute and delayed

**Symptoms** Itching. Rashes. Hives.

Indication of any immediate medical attention and special treatment needed

Note to doctors May cause sensitisation in susceptible persons. 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.

No information available. Unsuitable extinguishing media

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 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

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal **Personal precautions** 

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

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

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. Annacated Liena Chigaepiesk

## **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

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off contaminated clothing and wash it before reuse.

## Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep out of the reach of children. 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
Sodium azide	Ceiling: 0.11 ppm	Ceiling: 0.29 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	0.11 ppm Peak
26628-22-8	Ceiling: 0.29 mg/m <sup>3</sup>	Sodium azide	STEL: 0.3 mg/m <sup>3</sup>	0.3 mg/m³ Peak
		Ceiling: 0.11 ppm	Sk*	-
		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).

Hand protection Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

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 No information available

Colour colourless Odourless. Odour

**Odour threshold** No information available

Remarks • Method **Property** Values

None known pН Melting point / freezing point No data available None known

100 °C Boiling point / boiling range

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

No data available Vapour pressure 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 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 **Explosive properties** Not applicable.

**Oxidising properties** Not applicable.

Other information

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

## 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 None.

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

None known

None known

toxic gases.

Conditions to avoid

Conditions to avoid None known based on information supplied.

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.

**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 Itching. Rashes. Hives.

**Acute toxicity** 

**Numerical measures of toxicity** 

**Component Information** 

Component information			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Trade secret	= 3 g/kg (Rat)	> 10 g/kg(Rabbit)	> 42 g/m³ (Rat) 1 h
Sodium phosphate dibasic	= 17 g/kg (Rat)	-	-
Trade secret	= 8290 mg/kg ( Rat )	> 7940 mg/kg ( Rabbit )	-
Sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit) = 50 mg/kg (Rat)	-
Trade secret	= 2600 mg/kg ( Rat )	-	-
Trade secret	= 3200 mg/kg ( Rat )	> 4640 mg/kg ( Rabbit )	-
5-Chloro-2-methyl-3(2H)-isothia zolone, mixture with 2-methyl-3(2H)-isothiazolone	= 53 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.

Respiratory or skin sensitisation May cause sensitisation by skin contact

**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 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.

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

## **SECTION 12: Ecological information**

**Ecotoxicity** 

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Aquatic ecotoxicity** 

**Unknown aquatic toxicity** 0 % of the mixture consists of component(s) of unknown hazards to the aquatic

environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Trade secret	-	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,	
		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)	
Trade secret	EC50: =2500mg/L (72h,	LC50: 750 - 1020mg/L (96h,	EC50: =825mg/L (48h, Daphnia
	Desmodesmus subspicatus)	Pimephales promelas)	magna)
		LC50: =1060mg/L (96h, Lepomis	EC50: =83mg/L (48h, Daphnia
		macrochirus)	magna)

**Terrestrial ecotoxicty** 

There is no data for this product.

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

Persistence and degradability No information available.

Bioaccumulative potential

**Bioaccumulation** No information available.

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

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**

Not regulated IATA IMDG Not regulated

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

No information available

## 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	
Trade secret -	6.1E (All),6.1E (O),6.4A	
Sodium phosphate dibasic - 7558-79-4	6.3B,6.4A	
Trade secret -	6.1E (I),6.3B,6.4A	
	6.3B,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	
Trade secret -	6.1D (All),6.1D (O),6.3B,6.4A,9.3B	
	6.1E (All),6.1E (O),6.3B,6.4A,9.3B	
	6.1E (All),6.1E (O),6.3B,6.4A,9.3C	
Trade secret -	6.1D (AII),6.1D (O),6.4A,9.3C	
	6.1E (All),6.1E (O),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 , and could be in group of

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

Revision date 25-Mar-2021

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

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**Revision Note** SDS sections updated. 1.

### 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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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**