

Section 1 - Identification

Product Identifier

Product Name BHI Agar with Blood, Ciproflaxacin and Vancomycin

Recommended Use Laboratory chemicals.
Uses advised against No Information available

Product Code R10403

Address Thermo Fisher Scientific New Zealand Ltd

244 Bush Road, Albany, Auckland, New Zealand

Emergency Tel. CHEMTREC®

09 980 6780 or +64 9 980 6780

Telephone / Fax NumbersTel: 09 980 6700
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ANZinfo@thermofisher.com

Section 2 - Hazard(s) Identification

Classification under Work Safe New Zealand

Not classified as hazardous according to criteria of EPA New Zealand

GHS Classification

E-mail address

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

<u>Label Elements</u> None required

Other hazards which do not result in classification

This product does not contain any known or suspected endocrine disruptors

100000000110956 Version 1 05-Jul-2023 Page 1/10

Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
Animal blood	RR-56295-8	6.1
Water	7732-18-5	89.32
Peptones, connective tissue	102506-13-8	0.61
Glucose	50-99-7	0.17
Sodium chloride	7647-14-5	0.31
Yeast, ext.	8013-01-2	0.35
Propanoic acid, 2-oxo-, sodium salt	113-24-6	Trace
Sodium carbonate	497-19-8	Trace
Gelatins, hydrolyzates	68410-45-7	0.17
Agar	9002-18-0	1.09
Caseins, hydrolyzates	65072-00-6	1.1
Vancomycin hydrochloride	1404-93-9	Trace
Ciprofloxacin	85721-33-1	Trace
Hydrogen chloride	7647-01-0	Trace
Sodium phosphate dibasic	7558-79-4	0.22

Section 4 - First Aid Measures

Description of first aid measures

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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 physician.

Skin ContactWash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Self-Protection of the First Aider No special precautions required.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

No information available.

Notes to Physician Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

No information available.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

None under normal use conditions.

10000000110956 Version 1 05-Jul-2023 Page 2/10

Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Emergency procedures

Ensure adequate ventilation.

Environmental Precautions

See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal.

Precautions to prevent secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Advice on safe handling

Ensure adequate ventilation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

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

Incompatible Materials

None known.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

Section 8 - Exposure Controls and Personal Protection

Control parameters

Exposure limits

NZ - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor **ACGIH** - Threshold Limit Values - Ceiling (TLV-C) guidelines by the American Conference of Governmental Industrial Hygienists (ACGIH) for controlling worker exposure to airborne chemical concentrations in the workplace.

UK - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020.

Component	New Zealand WEL	Australia	ACGIH TLV	The United Kingdom
Hydrogen chloride	Ceiling: 5 ppm Ceiling: 7.5 mg/m³		Ceiling: 2 ppm	STEL: 5 ppm 15 min STEL: 8 mg/m³ 15 min TWA: 1 ppm 8 hr TWA: 2 mg/m³ 8 hr

10000000110956 Version 1 05-Jul-2023 Page 3/10

Biological limit values

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

Appropriate engineering controls

Engineering Measures

None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye Protection Wear safety glasses with side shields (or goggles) (Australian/New Zealand Standard

AS/NZS 1337 - Eye protectors for Industrial applications)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments
Disposable gloves.	See manufacturers	-	AS/NZS 2161	(minimum requirement)
	recommendations			

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Repiratory Protection Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

Method - No information available

and maintenance of repiratory protective devices

Recommended Filter type: Particle filter (or AUS/NZ equivalent)

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State Solid Gel Consistency

Appearance

Odor No information available
Odor Threshold No data available

pH No information available
Melting Point/Range No data available
Softening Point No data available

Softening Point

Boiling Point/Range
Flammability (liquid)
Flammability (solid,gas)

Explosion Limits

No data available
No information available
No information available
No data available

Flash Point No information available

Autoignition TemperatureNo data availableDecomposition TemperatureNo data available

10000000110956 Version 1 05-Jul-2023 Page 4/10

(Air = 1.0)

Viscosity No data available No information available Water Solubility Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow 0.28 Ciprofloxacin

Vapor Pressure No data available **Density / Specific Gravity** No data available **Bulk Density** No data available Vapor Density No data available

No data available

Particle characteristics

Other information

Section 10 - Stability and Reactivity

Reactivity None known, based on information available

Stability Stable under normal conditions.

Sensitivity to Mechanical Impact No information available

No information available Sensitivity to Static Discharge

No information available. **Hazardous Polymerization**

Hazardous Reactions No information available.

Conditions to Avoid Heat, flames and sparks.

Incompatible Materials None known.

Hazardous Decomposition Products None under normal use conditions.

Section 11 - Toxicological Information

Acute Effects

Information on likely routes of exposure

Product Information

Inhalation Not an expected route of exposure. Not an expected route of exposure. Eves

Skin No known effect based on information supplied. Ingestion No known effect based on information supplied.

Numerical measures of toxicity

(a) acute toxicity;

Oral Based on available data, the classification criteria are not met Dermal Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Inhalation

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Water	-	-	-		
Glucose	25.8 g/kg (Rat)				
Sodium chloride	LD50 = 3 g/kg (Rat)	LD50 > 10000 mg/kg (Rabbit)	LC50 > 42 mg/L (Rat) 1 h		

05-Jul-2023 10000000110956 Page 5/10 Version 1

Propanoic acid, 2-oxo-, sodium salt	5600 mg/kg (Rat)		
Sodium carbonate	2800 mg/kg (Rat)	> 2000 mg/kg (rabbit)	2.3 mg/l 2h (Rat)
Agar	LD50 = 11 g/kg (Rat)		
Vancomycin hydrochloride	LD50 > 10 g/kg (Rat)		
Ciprofloxacin	> 2 gm/kg (Rat)		
Hydrogen chloride	LD50 238 - 277 mg/kg (Rat)	LD50 > 5010 mg/kg (Rabbit)	LC50 = 1.68 mg/L (Rat) 1 h
Sodium phosphate dibasic	LD50 = 17 g/kg (Rat)		

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Symptoms / effects,both acute and delayed

No information available.

Section 12 - Ecological Information

Ecotoxicity

Aquatic ecotoxicityContains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Component	Component Freshwater Fish		Freshwater Algae	Microtox
Sodium chloride	Pimephals prome:	EC50: 1000 mg/L/48h		
	LC50: 7650 mg/L/96h			
Sodium carbonate	Lepomis macrochirus:	EC50: = 265 mg/L, 48h		-
	LC50: 300 mg/L/96h	(Daphnia magna)		
	Gambusia affinis: LC50:			
	740 mg/L/96h			

10000000110956 Version 1 05-Jul-2023 Page 6/10

Terrestrial ecotoxicity

Component	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

No information available

Component	log Pow	Bioconcentration factor (BCF)
Ciprofloxacin	0.28	No data available

Mobility No information available.

Other adverse effects

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected endocrine disruptors

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

Section 13 - Disposal Considerations

Waste treatment methods

Waste from Residues/Unused

Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

Contaminated Packaging

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

Other Information

Disposal agencies or waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Regulations .

Section 14 - Transport Information

Component	Hazchem Code
Hydrogen chloride	2RE
7647-01-0 (Trace)	2R

NZS 5433:2020 Not regulated

IATA Not regulated

IMDG/IMO Not regulated

Environmental hazards No hazards identified

Transport in bulk according to Annex II of MARPOL 73/78 and the Not applicable, packaged goods

10000000110956 Version 1 05-Jul-2023 Page 7/10

IBC Code

Special Precautions No special precautions required. Please refer to the applicable dangerous goods

regulations for additional information.

Additional information None known

Section 15 - Regulatory Information

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

National Regulations

There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances

Certified handlers, tracking and controlled substance license requirements

Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, 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.

Prohibition or notification/licensing requirements

Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

International Regulations

Ozone Depletion Potential This product does not contain any known or suspected substance

Persistent Organic Pollutant This product does not contain any known or suspected substance

Rotterdam Convention (PIC) Not applicable

Compo	onent	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	` '	IMDG Marine Pollutant
Hydrogen	chloride	25 tonne	250 tonne	

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Sodium carbonate	-	Use restricted. See item 75. (see link for restriction details)	-
Ciprofloxacin	-	Use restricted. See item 75. (see link for restriction details)	-
Hydrogen chloride	<u>-</u>	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

International Inventories

New Zealand (NZIoC), Australia (AICS), Europe (EINECS/ELINCS/NLP), Korea (KECL), China (IECSC), Taiwan (TCSI), Japan (ISHL), Canada (DSL/NDSL), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

L	Component	CAS No	NZIoC	AICS	EINECS	ELINCS	NLP	KECL	IECSC	TCSI
	Animal blood	RR-56295-8	-	-	-	-	-	ı	-	-

100000000110956 Version 1 05-Jul-2023 Page 8 / 10

Water	7732-18-5	X	X	231-791-2	-	-	KE-35400	Χ	X
Peptones, connective tissue	102506-13-8	-	-	310-118-7	-	-	KE-28132	-	-
Glucose	50-99-7	Χ	Х	200-075-1	-	-	KE-17727	Χ	Х
Sodium chloride	7647-14-5	Χ	Х	231-598-3	-	-	KE-31387	Χ	Х
Yeast, ext.	8013-01-2	Х	Х	232-387-9	-	-	KE-05-135 5	Х	Х
Propanoic acid, 2-oxo-, sodium salt	113-24-6	Х	Х	204-024-4	-	-	KE-27653	Х	Х
Sodium carbonate	497-19-8	Χ	Х	207-838-8	-	-	KE-31380	Х	Х
Gelatins, hydrolyzates	68410-45-7	Х	Х	270-082-2	-	-	KE-17576	Х	Х
Agar	9002-18-0	Χ	Х	232-658-1	-	-	KE-00275	Χ	Х
Caseins, hydrolyzates	65072-00-6	Х	Х	265-363-1	-	-	KE-05-031 8	Х	Х
Vancomycin hydrochloride	1404-93-9	-	-	-	-	-	KE-35308	Х	Х
Ciprofloxacin	85721-33-1	-	-	-	-	-	-	Χ	Х
Hydrogen chloride	7647-01-0	Х	Х	231-595-7	-	-	KE-20189	Х	Х
Sodium phosphate dibasic	7558-79-4	Χ	Х	231-448-7	-	-	KE-12344	Х	Х

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	PICCS	ISHL	ENCS
Animal blood	RR-56295-8	-	-	-	-	-	-	-
Water	7732-18-5	Х	ACTIVE	Х	-	Х	-	Х
Peptones, connective tissue	102506-13-8	-	-	-	-	-	-	-
Glucose	50-99-7	Х	ACTIVE	Х	-	Х	Х	Х
Sodium chloride	7647-14-5	Х	ACTIVE	Х	-	Х	Х	Х
Yeast, ext.	8013-01-2	Х	ACTIVE	Х	-	Х	-	-
Propanoic acid, 2-oxo-, sodium	113-24-6	Х	ACTIVE	Х	-	Х	Х	Х
salt								
Sodium carbonate	497-19-8	X	ACTIVE	X	-	X	X	X
Gelatins, hydrolyzates	68410-45-7	X	ACTIVE	X	-	X	-	-
Agar	9002-18-0	Х	ACTIVE	Х	-	X	-	-
Caseins, hydrolyzates	65072-00-6	Х	ACTIVE	Х	-	X	Х	Х
Vancomycin hydrochloride	1404-93-9	-	-	-	-	Х	-	-
Ciprofloxacin	85721-33-1	-	-	-	-	-	-	-
Hydrogen chloride	7647-01-0	Х	ACTIVE	Х	-	Х	Х	Х
Sodium phosphate dibasic	7558-79-4	Х	ACTIVE	Х	-	Х	Х	Х

Legend: X - Listed '-' - Not Listed **KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

Section 16 - Other Information

This safety data sheet complies with the requirements of the EPA Hazardous Substances (Hazard Classification) Notice 2020 and WorkSafe New Zealand Regulations

Legend

NZIoC - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

NZS 5433:2020 - Transport of Dangerous Goods on Land

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% WEL - Workplace Exposure Limit DNEL - Derived No Effect Level **AICS** - Australian Inventory of Chemical Substances

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists

PNEC - Predicted No Effect Concentration

OECD - Organisation for Economic Co-operation and Development **IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

ADG - Australian Code for the Transport of Dangerous Goods by Road and Rail

LC50 - Lethal Concentration 50%

ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment NOEC - No Observed Effect Concentration

100000000110956 Version 1 05-Jul-2023 Page 9/10

BHI Agar with Blood, Ciproflaxacin and Vancomycin

SAFETY DATA SHEET

POW - Partition coefficient Octanol:Water BCF - Bioconcentration factor

vPvB - very Persistent, very Bioaccumulative PBT - Persistent, Bioaccumulative, Toxic

VOC - (Volatile Organic Compound)

Key literature references and sources for data

HSNO classifications provided in the New Zealand Chemical Classification Information Database (CCID).

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

EPA Guide to classifying hazardous substances in New Zealand

EPA - Assigning a product to an existing HSNO approval guide

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards

Health Hazards

Environmental hazards

On basis of test data
Calculation method
Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Revision Date 05-Jul-2023 Revision Summary Not applicable

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

10000000110956 Version 1 05-Jul-2023 Page 10 / 10