

Section 1 - Identification

Product Identifier

Product Name Anaerobic Reducible Blood Agar with Nalidixic acid and Vancomycin

Recommended Use Laboratory chemicals.
Uses advised against No Information available

Product Code R01070

Address Thermo Fisher Scientific New Zealand Ltd

244 Bush Road, Albany, Auckland, New Zealand

Emergency Tel. CHEMTREC®

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Section 2 - Hazard(s) Identification

Classification under Work Safe New Zealand

Not classified as hazardous according to criteria of EPA New Zealand

GHS Classification

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

100000000111351 Version 1 05-Jul-2023 Page 1/12

Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
Animal blood	RR-56295-8	5.79
Ethyl alcohol	64-17-5	Trace
Ferrate(2-),	16009-13-5	Trace
chloro[7,12-diethenyl-3,8,13,17-tetramethyl-21H,23H-porp hine-2,18-dipropanoato(4-)-N21,N22,N23,N24]-, dihydrogen, (SP-5-13)-		
2,3-Butanediol, 1,4-dimercapto-, (R*,R*)-	3483-12-3	Trace
Palladium(II) chloride	7647-10-1	Trace
Hydrogen chloride	7647-10-1	Trace
Cysteine hydrochloride, L-(+)-, monohydrate	7047-01-0	Trace
Sodium hydroxide	1310-73-2	Trace
Sodium riydroxide Sodium chloride	7647-14-5	0.54
Starch	9005-25-8	U.54 Trace
Phylloquinone	84-80-0	Trace
Peptones, connective tissue	102506-13-8	0.45
	9002-18-0	1.16
Agar	65072-00-6	1.16
Caseins, hydrolyzates Calcium chloride	10043-52-4	Trace
	7786-30-3	
Magnesium chloride	8013-01-2	Trace
Yeast, ext.		Trace
Gelatins, hydrolyzates	68410-45-7	0.18
Propanoic acid, 2-oxo-, sodium salt	113-24-6	Trace
Sodium carbonate	497-19-8	Trace
Meat extracts, beef	68990-09-0	Trace
Water	7732-18-5	90.24
Vancomycin hydrochloride	1404-93-9	Trace
Nalidixic acid	389-08-2	Trace

Section 4 - First Aid Measures

Description of first aid measures

New Zealand Emergency Tel. CHEMTREC®

09 980 6780 or +64 9 980 6780

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

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

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically.

Section 5 - Fire Fighting Measures

100000000111351 Version 1 05-Jul-2023 Page 2/12

Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

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.

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. Use personal protective equipment as required.

Environmental Precautions

Should not be released into the environment. 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

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

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 containers tightly closed in a dry, cool 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

100000000111351 Version 1 05-Jul-2023 Page 3/12

Exposure limits

NZ - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

AUS - Exposure Standards for Atmospheric Contaminants in the Occupational Environment - Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)]

Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] updated in August, 2005. Safe Work Australia

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

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.

Component	New Zealand WEL	Australia	ACGIH TLV	The United Kingdom
Ethyl alcohol	TWA: 1000 ppm TWA: 1880 mg/m³	TWA: 1000 ppm TWA: 1880 mg/m³	STEL: 1000 ppm	TWA: 1000 ppm TWA; 1920 mg/m³ TWA WEL - STEL: 3000 ppm STEL; 5760 mg/m³ STEL
Ferrate(2-), chloro[7,12-diethenyl-3,8,13, 17-tetramethyl-21H,23H-por phine-2,18-dipropanoato(4-)- N21,N22,N23,N24]-, dihydrogen, (SP-5-13)-		TWA: 1 mg/m³	TWA: 1 mg/m³	STEL: 2 mg/m³ 15 min TWA: 1 mg/m³ 8 hr
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
Sodium hydroxide	Ceiling: 2 mg/m ³	2 mg/m³ TWA	Ceiling: 2 mg/m ³	2 mg/m ³ STEL
Starch	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	STEL: 30 mg/m³ 15 min STEL: 12 mg/m³ 15 min TWA: 10 mg/m³ 8 hr TWA: 4 mg/m³ 8 hr

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

and maintenance of repiratory protective devices

100000000111351 Version 1 05-Jul-2023 Page 4/12

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

No information available Odor **Odor Threshold** No data available No information available Hq Melting Point/Range No data available **Softening Point** No data available **Boiling Point/Range** No information available Flammability (liquid) No data available Flammability (solid,gas) No information available No data available **Explosion Limits**

Flash Point No information available Method - No information available

Autoignition Temperature
Decomposition Temperature
Viscosity
Water Solubility
Solubility in other solvents
No data available
No data available
No information available
No information available

Partition Coefficient (n-octanol/water)

Componentlog PowEthyl alcohol-0.32Nalidixic acid1,41

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

Particle characteristics No data available

Other information

VOC Content(%) 0.09

Section 10 - Stability and Reactivity

Reactivity None known, based on information available

Stability Stable under normal conditions.

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous ReactionsNone under normal processing.

Conditions to Avoid Incompatible products, Excess heat, Avoid dust formation.

100000000111351 Version 1 05-Jul-2023 Page 5 / 12

(Air = 1.0)

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

InhalationNot an expected route of exposure.EyesNot an expected route of exposure.

Skin No known effect based on information supplied.

Ingestion Not an expected route of exposure.

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

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethyl alcohol	LD50 = 7060 mg/kg (Rat)		20000 ppm/10H (Rat)
2,3-Butanediol, 1,4-dimercapto-, (R*,R*)-	400 mg/kg (Rat)		
Palladium(II) chloride	LD50 = 2704 mg/kg (Rat)		
Hydrogen chloride	LD50 238 - 277 mg/kg (Rat)	LD50 > 5010 mg/kg (Rabbit)	LC50 = 1.68 mg/L (Rat) 1 h
Sodium hydroxide	LD50 = 325 mg/kg (Rat)	LD50 = 1350 mg/kg (Rabbit)	
Sodium chloride	LD50 = 3 g/kg (Rat)	LD50 > 10000 mg/kg (Rabbit)	LC50 > 42 mg/L (Rat) 1 h
Phylloquinone	LD50 > 33487 mg/kg (Rat)		
Agar	LD50 = 11 g/kg (Rat)		
Calcium chloride	2301 mg/kg (Rat)	LD50 > 5000 mg/kg (Rabbit)	
Magnesium chloride	LD50 = 2800 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat)	
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)
Water	-	-	-
Vancomycin hydrochloride	LD50 > 10 g/kg (Rat)		
Nalidixic acid	LD50 = 2040 mg/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

100000000111351 Version 1 05-Jul-2023 Page 6/12

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B) The table below indicates whether each agency has

listed any ingredient as a carcinogen

(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 ecotoxicity

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

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Ethyl alcohol	Fathead minnow (Pimephales promelas) LC50 = 14200 mg/l/96h	EC50 = 9268 mg/L/48h EC50 = 10800 mg/L/24h	EC50 (72h) = 275 mg/l (Chlorella vulgaris)	Photobacterium phosphoreum:EC50 = 34634 mg/L/30 min Photobacterium phosphoreum:EC50 = 35470 mg/L/5 min
Sodium hydroxide	LC50: = 45.4 mg/L, 96h static (Oncorhynchus mykiss)	-	-	-
Sodium chloride	Pimephals prome: LC50: 7650 mg/L/96h	EC50: 1000 mg/L/48h		
Calcium chloride	Lepomis macrochirus: LC50: 10650 mg/L/96h	EC50: 52 mg/L/48h		
Magnesium chloride	Pimephales promelas: EC50: 2.12 g/L:96H	EC50 : 1400 mg/L/24h	EC50: 2200 mg/L/72h	EC50 Pseudomonas putida: EC50:26,14 g/L/h Photobacterium phosphoreum: EC50: 36,3 mg/L/30 min Photobacterium phosphoreum: EC50: 77,2 mg/L/24 h
Sodium carbonate	Lepomis macrochirus: LC50: 300 mg/L/96h Gambusia affinis: LC50: 740 mg/L/96h	EC50: = 265 mg/L, 48h (Daphnia magna)		-

Terrestrial ecotoxicity

10000000111351 Version 1 05-Jul-2023 Page 7/12

Component	Earthworm	Avian	Honeybees
Ethyl alcohol	Acute toxicity: LC50 0.1 - 1		
	mg/cm2 (Eisenia foetida, 48 h,		
	filter paper)		
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)
Ethyl alcohol	-0.32	No data available
Nalidixic acid	1,41	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
Ethyl alcohol	2YE
64-17-5 (Trace)	2Y
Hydrogen chloride	2RE
7647-01-0 (Trace)	2R
Sodium hydroxide	2W
1310-73-2 (Trace)	2R

Not regulated

IATA Not regulated

IMDG/IMO Not regulated

100000000111351 Version 1 05-Jul-2023 Page 8/12

Environmental hazards No hazards identified

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

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

	Component	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	·	IMDG Marine Pollutant
H				
- 1	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)
Hydrogen chloride	-	Use restricted. See item 75. (see link for restriction details)	•
Sodium hydroxide	-	Use restricted. See item 75. (see link for restriction details)	-
Phylloquinone	-	Use restricted. See item 75. (see link for restriction details)	-
Calcium chloride	-	Use restricted. See item 75. (see link for restriction details)	-
Sodium carbonate	-	Use restricted. See item 75. (see link for restriction details)	-

100000000111351 Version 1 05-Jul-2023 Page 9/12

Anaerobic Reducible Blood Agar with Nalidixic acid and Vancomycin

SAFETY DATA SHEET

Nalidixic acid	-	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)

Component	CAS No	NZIoC	AICS	EINECS	ELINCS	NLP	KECL	IECSC	TCSI
Animal blood	RR-56295-8	-	-	-	-	-	-	-	-
Ethyl alcohol	64-17-5	Х	Х	200-578-6	-	-	KE-13217	Х	Х
Ferrate(2-),	16009-13-5	Х	-	240-140-1	-	-	-	Х	Х
chloro[7,12-diethenyl-3,8,13,17-tet									
ramethyl-21H,23H-porphine-2,18-									
dipropanoato(4-)-N21,N22,N23,N2									
4]-, dihydrogen, (SP-5-13)-	0.400.40.0			202 402 7					
2,3-Butanediol, 1,4-dimercapto-, (R*,R*)-	3483-12-3	Х	Х	222-468-7	-	-	-	Х	Х
Palladium(II) chloride	7647-10-1	X	Х	231-596-2	-	-	KE-27746	Χ	X
Hydrogen chloride	7647-01-0	Х	Х	231-595-7	-	-	KE-20189	Χ	Х
Cysteine hydrochloride, L-(+)-, monohydrate	7048-04-6	Х	Х	-	-	-	KE-01430	Х	Х
Sodium hydroxide	1310-73-2	Х	Х	215-185-5	-	-	KE-31487	Х	Х
Sodium chloride	7647-14-5	Х	Х	231-598-3	-	-	KE-31387	Х	Х
Starch	9005-25-8	Х	Х	232-679-6	-	-	KE-32128	Х	Х
Phylloquinone	84-80-0	Х	Х	201-564-2	-	-	KE-24853	Χ	Х
Peptones, connective tissue	102506-13-8	-	-	310-118-7	-	-	KE-28132	=	-
Agar	9002-18-0	Х	Х	232-658-1	-	-	KE-00275	Х	Х
Caseins, hydrolyzates	65072-00-6	Х	Х	265-363-1	-	-	KE-05-031	Х	Х
Calcium chloride	10043-52-4	Х	Х	233-140-8	-	-	KE-04496	Х	Х
Magnesium chloride	7786-30-3	Х	Х	232-094-6	-	-	KE-22691	Х	Х
Yeast, ext.	8013-01-2	Х	Х	232-387-9	-	-	KE-05-135	Х	Х
							5		
Gelatins, hydrolyzates	68410-45-7	X	Х	270-082-2	-	-	KE-17576	Χ	X
Propanoic acid, 2-oxo-, sodium salt	113-24-6	X	Х	204-024-4	-	-	KE-27653	Х	X
Sodium carbonate	497-19-8	Χ	Х	207-838-8	-	-	KE-31380	Χ	Χ
Meat extracts, beef	68990-09-0	-	Х	273-578-7	-	-	KE-23065	Χ	Х
Water	7732-18-5	Х	Х	231-791-2	-	-	KE-35400	Χ	Х
Vancomycin hydrochloride	1404-93-9	-	-	-	-	-	KE-35308	Χ	Х
Nalidixic acid	389-08-2	Χ	Х	206-864-7	-	-	KE-13602	Χ	Х

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	PICCS	ISHL	ENCS
Animal blood	RR-56295-8	-	=	-	-	-	-	-
Ethyl alcohol	64-17-5	X	ACTIVE	Х	-	X	Х	Х
Ferrate(2-),	16009-13-5	Х	ACTIVE	Х	-	-	Х	Х
chloro[7,12-diethenyl-3,8,13,17-tet ramethyl-21H,23H-porphine-2,18- dipropanoato(4-)-N21,N22,N23,N2 4]-, dihydrogen, (SP-5-13)-								
2,3-Butanediol, 1,4-dimercapto-, (R*,R*)-	3483-12-3	Х	ACTIVE	Х	-	X	-	-
Palladium(II) chloride	7647-10-1	Х	ACTIVE	Х	-	X	Х	Х
Hydrogen chloride	7647-01-0	Х	ACTIVE	Х	-	X	Х	Х
Cysteine hydrochloride, L-(+)-, monohydrate	7048-04-6	-	-	-	-	Х	-	Х
Sodium hydroxide	1310-73-2	Х	ACTIVE	Х	-	X	Х	Х
Sodium chloride	7647-14-5	Х	ACTIVE	Х	-	X	Х	X
Starch	9005-25-8	X	ACTIVE	X	-	X	Х	X
Phylloquinone	84-80-0	Χ	ACTIVE	Х	-	Х	Х	Х
Peptones, connective tissue	102506-13-8	-	-	-	-	-	-	-
Agar	9002-18-0	Х	ACTIVE	Х	-	Х	-	-
Caseins, hydrolyzates	65072-00-6	Χ	ACTIVE	Х	1	Х	Χ	Х

100000000111351 Version 1 05-Jul-2023 Page 10 / 12

Calcium chloride	10043-52-4	Χ	ACTIVE	Χ	-	Χ	Χ	Χ
Magnesium chloride	7786-30-3	X	ACTIVE	Х	-	X	Х	Х
Yeast, ext.	8013-01-2	X	ACTIVE	Х	-	X	-	-
Gelatins, hydrolyzates	68410-45-7	Х	ACTIVE	Х	-	Х	-	-
Propanoic acid, 2-oxo-, sodium salt	113-24-6	Х	ACTIVE	Х	-	Х	Х	Х
Sodium carbonate	497-19-8	Х	ACTIVE	Х	-	Х	Х	Х
Meat extracts, beef	68990-09-0	Х	ACTIVE	Х	-	Х	-	-
Water	7732-18-5	Х	ACTIVE	Х	-	Х	-	Х
Vancomycin hydrochloride	1404-93-9	=	=	-	-	Х	-	-
Nalidixic acid	389-08-2	-	-	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)

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 Ships

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% WEL - Workplace Exposure Limit

DNEL - Derived No Effect Level

POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative

VOC - (Volatile Organic Compound)

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

BCF - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

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 On basis of test data **Health Hazards** Calculation method **Environmental hazards** 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

10000000111351 05-Jul-2023 Version 1 Page 11/12

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End of Safety Data Sheet

100000000111351 Version 1 05-Jul-2023 Page 12 / 12