

Classified as hazardous in accordance with the criteria of EPA New Zealand

Section 1 - Identification

Product Identifier

Product Name Haemophilus influenzae type d Agglutinating Sera

Recommended Use Laboratory chemicals.
Uses advised against No Information available

Product Code R30166301

Address Thermo Fisher Scientific New Zealand Ltd

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Emergency Tel. CHEMTREC®

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Section 2 - Hazard(s) Identification

Classification under Work Safe New Zealand

Classified as hazardous in accordance with the criteria of EPA New Zealand

GHS Classification

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Acute Inhalation Toxicity - VaporsCategory 4Germ Cell MutagenicityCategory 1Reproductive ToxicityCategory 2

Environmental hazards

Chronic aquatic toxicity Category 4

Label Elements

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Signal Word Danger

Hazard Statements

H332 - Harmful if inhaled

H340 - May cause genetic defects

H361 - Suspected of damaging fertility or the unborn child H413 - May cause long lasting harmful effects to aquatic life

Precautionary Statements

Storage

P403 - Store in a well-ventilated place

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards which do not result in classification

This product does not contain any known or suspected endocrine disruptors

Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %		
Phenol	108-95-2	0.5		
Sodium hydroxide	1310-73-2	<0.5		

Section 4 - First Aid Measures

Description of first aid measures

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

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Seek immediate medical

attention/advice.

Skin Contact Wash off immediately with soap and plenty of water. Get medical attention immediately if

symptoms occur.

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

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

No information available.

Notes to Physician Treat symptomatically.

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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

Carbon oxides, Nitrogen oxides (NOx), Hydrogen bromide.

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

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation.

Environmental Precautions

See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up

Soak up with inert absorbent material. Clean contaminated surface thoroughly.

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

Avoid contact with skin, eyes or clothing. Do not breathe mist/vapors/spray. 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. Keep at temperatures between 2°C and 8 °C.

Incompatible Materials

No materials to be especially mentioned.

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

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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 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
Phenol	TWA: 1 ppm			STEL: 4 ppm 15 min
	TWA: 3.8 mg/m ³			STEL: 16 mg/m ³ 15 min
	STEL: 2 ppm			TWA: 2 ppm 8 hr
	STEL: 7.7 mg/m ³			TWA: 7.8 mg/m ³ 8 hr
	Skin			Skin
Sodium hydroxide	Ceiling: 2 mg/m ³	2 mg/m³ TWA	Ceiling: 2 mg/m ³	2 mg/m ³ STEL

Biological limit values

ACGIH - American Conference of Governmental Industrial Hygienists (ACGIH) TLVs® and BEIs®- Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices. 2022 Edition

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

Component	New Zealand	Australia	ACGIH - Biological	United Kingdom
-			Exposure Indices	_
Phenol	100 mg/L (urine) end of shift		250 mg/g creatinine	
	(Phenol)		Medium: urine	
	, ,		Time: end of shift	
			Determinant: Phenol with	
			hydrolysis	

Appropriate engineering controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

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

ſ	Glove material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments
١	Disposable gloves.	See manufacturers	-	AS/NZS 2161	(minimum requirement)
١		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 ProtectionUse an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

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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

(Air = 1.0)

and maintenance of repiratory protective devices (or AUS/NZ equivalent)

When RPE is used a face piece Fit Test should be conducted

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 Liquid

Amber **Appearance**

No information available Odor No data available **Odor Threshold** 6.6 - 6.8

Melting Point/Range No data available **Softening Point** No data available **Boiling Point/Range** Not applicable Flammability (liquid) No data available Flammability (solid,gas) No information available **Explosion Limits** No data available

Not applicable **Flash Point** Method - No information available

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

Partition Coefficient (n-octanol/water)

Component log Pow Phenol

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

Particle characteristics (liquid) Not applicable

Other information

Section 10 - Stability and Reactivity

Reactivity None known, based on information available

Stability Stable under recommended storage conditions.

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

Conditions to Avoid Heat, flames and sparks.

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Incompatible MaterialsNo materials to be especially mentioned.

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx). Hydrogen bromide.

Section 11 - Toxicological Information

Acute Effects

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

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

Skin No known effect based on information supplied.

Ingestion No known effect based on information supplied.

Numerical measures of toxicity

(a) acute toxicity;

OralNo data availableDermalNo data availableInhalationNo data available

Component		LD50 Oral	LD50 Dermal	LC50 Inhalation		
	Phenol	LD50 = 340 mg/kg (Rat)	LD50 = 630 mg/kg (Rabbit)	LC50 = 316 mg/m ³ (Rat) 4 h		
	Sodium hydroxide	LD50 = 325 mg/kg (Rat)	LD50 = 1350 mg/kg (Rabbit)			

(b) skin corrosion/irritation; No data available

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

(d) respiratory or skin sensitization;

Respiratory SkinNo data available
No data available

Sensitization None known

(e) germ cell mutagenicity; No data available

None known

(f) carcinogenicity; No data available

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	New Zealand	Australia	New South Wales	Western Australia	IARC	EU	UK	Germany
Phenol								Cat. 3B

(g) reproductive toxicity; No data available
Reproductive Effects None known
Developmental Effects None known
Neurological Effects None known

(h) STOT-single exposure; No data available

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(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
Phenol	4-7 mg/L LC50 96 h	EC50: 10.2 - 15.5 mg/L,	EC50: 187 - 279 mg/L,	EC50 21 - 36 mg/L 30
	32 mg/L LC50 96 h	48h (Daphnia magna) 72h static		min
		EC50: 4.24 - 10.7 mg/L,	(Desmodesmus	EC50 = 23.28 mg/L 5
		48h Static (Daphnia	subspicatus)	min
		magna)	EC50: 0.0188 - 0.1044	EC50 = 25.61 mg/L 15
			mg/L, 96h static	min
			(Pseudokirchneriella	EC50 = 28.8 mg/L 5 min
			subcapitata)	EC50 = 31.6 mg/L 15
			EC50: = 46.42 mg/L,	min
			96h	
			(Pseudokirchneriella	
			subcapitata)	
Sodium hydroxide	LC50: = 45.4 mg/L, 96h static (Oncorhynchus mykiss)	-	-	-

Terrestrial ecotoxicity

Component Earthworm		Avian	Honeybees
Phenol	Acute toxicity: LC100 = 6900		
	mg/kg (Eisenia foetida, 56 Days,		
	soil dry weight)		

Persistence and Degradability No information available

Bioaccumulative Potential No information available

Component	log Pow Bioconcentration factor			
Phenol	1.5 17.5 dimensi			
		647 dimensionless		

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

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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
Phenol	3X
108-95-2 (0.5)	2X
Sodium hydroxide	2W
1310-73-2 (<0.5)	2R

NZS 5433:2020 Not regulated

Not regulated IATA

Not regulated IMDG/IMO

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.

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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

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	, ,
Ī	Phenol	-	Use restricted. See item 75. (see link for restriction details)	-
Ī	Sodium hydroxide	-	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
Phenol	108-95-2	X	Χ	203-632-7	-	-	X	X	X
Sodium hydroxide	1310-73-2	Χ	Χ	215-185-5	-	1	KE-31487	Χ	Х

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	PICCS	ISHL	ENCS
Phenol	108-95-2	X	ACTIVE	Х	-	X	Х	Х
Sodium hydroxide	1310-73-2	X	ACTIVE	X	_	X	X	X

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

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

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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)

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

Training Advice

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

Revision Date 30-Jun-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

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