

SECTION 1: Product identifier**1.1. GHS Product identifier**

Product form : Mixture
Trade name : Neogen[®] Campylobacter Enrichment Broth
Product code : CE250

1.2. Other means of identification

Part Number(s) : CE250|700002285

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals
Scientific research and development

1.4. Details of manufacturer or importer**Supplier**

Neogen Corporation
620 Leshler Place
Lansing Michigan 48912
United States of America
T 800.234.5333
sds@neogen.com - <https://www.neogen.com/>

Importer

Neogen Australasia Pty Ltd
14 Hume Drive
Bundamba Queensland 4304
Australia
T 07 3736 2134
naa@neogen.com - <https://www.neogen.com/>

1.5. Emergency phone number

Emergency number : 24 hours:
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

Country/Area	Organisation	Emergency number
Australia	NSW Poisons Information Centre. The Children's Hospital at Westmead. Locked Bag 4001 NSW 2145 Westmead.	13 11 26

SECTION 2: Hazard identification**2.1. Classification of the hazardous chemical****Classification according to the model Work Health and Safety Regulations (WHS Regulations)**

Acute toxicity (oral), Category 5	H303
Acute toxicity (dermal), Category 5	H313
Acute toxicity (inhalation:dust,mist) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317

2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU) :



Corrosion

Exclamation
mark

Signal word (GHS AU) : Danger

Neogen® Campylobacter Enrichment Broth

Safety Data Sheet

according to the WHS Regulations

Contains	: 2-Oxoglutaric acid ; α -Ketoglutaric acid ($\geq 1 - < 5 \%$); Peptones, casein ($\geq 10 - < 15 \%$); Peptones, beef ($\geq 15 - < 25 \%$); Sodium chloride ($\geq 10 - < 15 \%$); Sodium metabisulfite ($\geq 1 - < 5 \%$); Sodium carbonate ($\geq 1 - < 5 \%$); Sodium pyruvate ($\geq 1 - < 5 \%$); Iron(II) sulfate heptahydrate ($\geq 1 - < 5 \%$)
Hazard statements (GHS AU)	: H303+H313 - May be harmful if swallowed or in contact with skin H315 - Causes skin irritation H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H332 - Harmful if inhaled
Precautionary statements (GHS AU)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor. P321 - Specific treatment (see supplemental first aid instruction on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Unknown acute toxicity (GHS AU)	: 38.96% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 92.52% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 96.18% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
2-Oxoglutaric acid ; α -Ketoglutaric acid	328-50-7	$\geq 1 - < 5$	Eye Dam. 1, H318
Sodium carbonate	497-19-8	$\geq 1 - < 5$	Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1, H314 Eye Dam. 1, H318
Sodium metabisulfite	7681-57-4	$\geq 1 - < 5$	Acute Tox. 4 (Oral), H302 Acute Tox. 5 (Dermal), H313 Eye Dam. 1, H318
Sodium pyruvate	113-24-6	$\geq 1 - < 5$	Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Skin Sens. 1B, H317
Other substances (not contributing to the classification of this product)	-	80 – 96	-

Neogen® Campylobacter Enrichment Broth

Safety Data Sheet

according to the WHS Regulations

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Call a poison center or a doctor if you feel unwell.
Self protection of the first-aider	: First aid workers will be equipped with suitable personal protective equipment.

4.2. Symptoms caused by exposure

Symptoms/effects after inhalation	: Harmful if inhaled.
Symptoms/effects after skin contact	: May be harmful in contact with skin. Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: May be harmful if swallowed.

4.3. Medical attention and special treatment

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
General measures	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel.

Neogen® Campylobacter Enrichment Broth

Safety Data Sheet

according to the WHS Regulations

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

For containment : Using a clean shovel, put the material in a dry container and cover without compressing it.
Methods for cleaning up : Mechanically recover the product.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment.
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.
Storage conditions : Keep cool. Protect from sunlight.
Packaging materials : Always store product in container of same material as original container.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

Sodium metabisulfite (7681-57-4)	
Australia - Occupational Exposure Limits	
Local name	Sodium metabisulphite (Disodium disulphite)
OES TWA	5 mg/m ³
Regulatory reference	Workplace exposure standards for airborne contaminants (2024)

8.2. Monitoring methods

No additional information available

8.3. Engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment : Wear recommended personal protective equipment.
Hand protection : Protective gloves
Eye protection : Safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s)



Environmental exposure controls : Avoid release to the environment.

Neogen® Campylobacter Enrichment Broth

Safety Data Sheet

according to the WHS Regulations

SECTION 9: Physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: Light brown
Odour	: Characteristic Slight
Odour threshold	: No data available
pH	: No data available
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point / Freezing point	: Freezing point: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Flammability	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Explosive properties	: No data available
Explosive limits	: Not applicable
Minimum ignition energy	: No data available
Fat solubility	: No data available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Acute toxicity (oral)	: May be harmful if swallowed.
Acute toxicity (dermal)	: May be harmful in contact with skin.
Acute toxicity (inhalation)	: Inhalation:dust,mist: Harmful if inhaled.

Neogen® Campylobacter Enrichment Broth	
ATE AU (oral)	2551.405 mg/kg bodyweight
ATE AU (dermal)	2558.14 mg/kg bodyweight
ATE AU (dust,mist)	1.346 mg/l/4h
2-Oxoglutaric acid ; α-Ketoglutaric acid (328-50-7)	
LD50 oral rat	5000 – 10000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)
Sodium metabisulfite (7681-57-4)	
LD50 oral rat	1540 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	1540 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Read-across, Dermal, 14 day(s))

Neogen® Campylobacter Enrichment Broth

Safety Data Sheet

according to the WHS Regulations

Sodium metabisulfite (7681-57-4)	
LD50 dermal	2500 mg/kg
LC50 Inhalation - Rat	> 5.5 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (dust), 14 day(s))
LC50 Inhalation - Rat (Dust/Mist)	> 5.5 mg/l Source: ECHA
Sodium carbonate (497-19-8)	
LD50 oral rat	2800 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	2800 mg/kg
LD50 dermal rabbit	> 2000 mg/kg (16 CFR 1500.40, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))
LD50 dermal	2500 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	1.2 mg/l/4h
Sodium pyruvate (113-24-6)	
LD50 oral	3533 mg/kg bodyweight (Mouse, Experimental value, Oral)
LD50 dermal rat	> 3000 mg/kg bodyweight (Rat, Male, Experimental value, Intraperitoneal)

Unknown acute toxicity (GHS AU) : 38.96% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
92.52% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
96.18% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Neogen® Campylobacter Enrichment Broth	
Viscosity, kinematic	Not applicable
Sodium metabisulfite (7681-57-4)	
Viscosity, kinematic	Not applicable (solid)
Sodium carbonate (497-19-8)	
Viscosity, kinematic	Not applicable (solid)
Sodium pyruvate (113-24-6)	
Viscosity, kinematic	Not applicable (solid)

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Neogen® Campylobacter Enrichment Broth

Safety Data Sheet

according to the WHS Regulations

2-Oxoglutaric acid ; α-Ketoglutaric acid (328-50-7)	
LC50 - Fish [1]	236000 mg/l Source: Ecological Structure Activity Relationships
EC50 - Crustacea [1]	70.7 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value)
EC50 - Crustacea [2]	> 100 mg/l Test organisms (species): Daphnia magna
Partition coefficient n-octanol/water (Log Pow)	-2.08 (25 °C)
LD50 oral rat	5000 – 10000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)

Sodium metabisulfite (7681-57-4)	
LC50 - Fish [1]	316 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Read-across, Nominal concentration)
NOEC (chronic)	> 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 316 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d'
Partition coefficient n-octanol/water (Log Pow)	-3.7 Source: ICSC
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Read-across, Dermal, 14 day(s))
LD50 oral rat	1540 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))

Sodium carbonate (497-19-8)	
LC50 - Fish [1]	300 mg/l (96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	200 – 227 mg/l (48 h, Ceriodaphnia sp., Semi-static system, Fresh water, Experimental value, Locomotor effect)
EC50 - Crustacea [2]	200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.
Partition coefficient n-octanol/water (Log Pow)	-6.19 Source: Quantitative Structure Activity Relation
LD50 dermal rabbit	> 2000 mg/kg (16 CFR 1500.40, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))
LD50 oral rat	2800 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s))

Sodium pyruvate (113-24-6)	
LC50 - Fish [1]	> 100 mg/l (96 h, Pisces, QSAR, Nominal concentration)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
ErC50 algae	> 3 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
NOEC (chronic)	3.95 mg/l Test organisms (species): Duration: '28 d'
Partition coefficient n-octanol/water (Log Pow)	-3.8 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
LD50 dermal rat	> 3000 mg/kg bodyweight (Rat, Male, Experimental value, Intraperitoneal)

12.2. Persistence and degradability

Neogen® Campylobacter Enrichment Broth	
Persistence and degradability	Not rapidly degradable
2-Oxoglutaric acid ; α-Ketoglutaric acid (328-50-7)	
Persistence and degradability	Readily biodegradable in water.

Neogen® Campylobacter Enrichment Broth

Safety Data Sheet

according to the WHS Regulations

Sodium metabisulfite (7681-57-4)	
Persistence and degradability	Biodegradability in water: no data available.
Chemical oxygen demand (COD)	0.15 g O ₂ /g substance

Sodium carbonate (497-19-8)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

Sodium pyruvate (113-24-6)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

2-Oxoglutaric acid ; α -Ketoglutaric acid (328-50-7)	
Partition coefficient n-octanol/water (Log Pow)	-2.08 (25 °C)
Bioaccumulative potential	Not bioaccumulative.

Sodium metabisulfite (7681-57-4)	
Partition coefficient n-octanol/water (Log Pow)	-3.7 Source: ICSC
Bioaccumulative potential	Not bioaccumulative.

Sodium carbonate (497-19-8)	
Partition coefficient n-octanol/water (Log Pow)	-6.19 Source: Quantitative Structure Activity Relation
Bioaccumulative potential	Not bioaccumulative.

Sodium pyruvate (113-24-6)	
Partition coefficient n-octanol/water (Log Pow)	-3.8 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

2-Oxoglutaric acid ; α -Ketoglutaric acid (328-50-7)	
Partition coefficient n-octanol/water (Log Pow)	-2.08 (25 °C)

Sodium metabisulfite (7681-57-4)	
Surface tension	70.7 mN/m (20 °C, OECD 115: Surface Tension of Aqueous Solutions)
Ecology - soil	No (test)data on mobility of the substance available.
Partition coefficient n-octanol/water (Log Pow)	-3.7 Source: ICSC

Sodium carbonate (497-19-8)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for adsorption in soil.
Partition coefficient n-octanol/water (Log Pow)	-6.19 Source: Quantitative Structure Activity Relation

Sodium pyruvate (113-24-6)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.
Partition coefficient n-octanol/water (Log Pow)	-3.8 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)

Neogen® Campylobacter Enrichment Broth

Safety Data Sheet

according to the WHS Regulations

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available

Neogen® Campylobacter Enrichment Broth

Fluorinated greenhouse gases	False
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SECTION 13: Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information : Do not re-use empty containers.

SECTION 14: Transport information

In accordance with ADG / IMDG / IATA

ADG	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated

14.6. Special precautions for user

Specific storage requirement : No data available
Shock sensitivity : No data available

14.7. Additional information

Other information : No supplementary information available

Transport by road and rail

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

14.8. Hazchem or Emergency Action Code

Hazchem Code : Not applicable

Neogen® Campylobacter Enrichment Broth

Safety Data Sheet

according to the WHS Regulations

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations

Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AICIS) : Contains substance(s) listed on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) status Inventory)

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Not applicable

Australian Pesticides and Veterinary Medicines Authority (APVMA)

Not applicable

15.2. International agreements

No additional information available

SECTION 16: Other information

Revision date : 12/12/2025

Classification	
Acute Tox. 5 (Oral)	H303
Acute Tox. 5 (Dermal)	H313
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317

Full text of H-statements	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Acute Tox. 5 (Dermal)	Acute toxicity (dermal), Category 5
Acute Tox. 5 (Oral)	Acute toxicity (oral), Category 5
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
H302	Harmful if swallowed
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled

Safety Data Sheet (SDS), Australia

Neogen® Campylobacter Enrichment Broth

Safety Data Sheet

according to the WHS Regulations

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.