

### Section 1 - Identification

Product Name ANAEROBE BASAL BROTH

Product Code CM0957

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Recommended Use Laboratory chemicals.

Uses advised against This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction. This product does not contain any substance(s) listed on the voluntary National

Code of Practice for Chemicals of Security Concern.

# Section 2 - Hazard(s) Identification

#### Classification under Safe Work Australia

Classified as not hazardous according to criteria of Safe Work Australia.

Physical hazards

No hazards identified

**Health hazards** 

No hazards identified

**Environmental hazards** 

No hazards identified

<u>Label Elements</u> None required

#### Other information

No information available

This product does not contain any known or suspected endocrine disruptors

# Section 3 - Composition and Information on Ingredients

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 Component
 CAS No
 Weight %

 Dithiothreitol
 3483-12-3
 2.8

 Diphosphoric acid, iron(3+) salt (3:4)
 10058-44-3
 1.4

 Sodium thioglycolate
 367-51-1
 1.4

### Section 4 - First Aid Measures

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

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

symptoms occur.

**Skin Contact** Wash with plenty of soap and water. Get medical attention if irritation develops and

persists.

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if

irritation persists.

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.

### 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

Use extinguishing method compatible with surroundings.

#### **Specific Hazards Arising from the Chemical**

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

#### 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

#### **Emergency procedures**

Avoid dust formation. Avoid contact with skin and eyes. Ensure adequate ventilation.

#### **Environmental Precautions**

See Section 12 for additional Ecological Information.

#### Methods for Containment and Clean Up

#### Clean-up methods - small spillage

Sweep up and shovel into suitable containers for disposal.

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#### Clean-up methods - large spillage

Typically only supplied is small quantiites as packaged goods.

If extremely toxic or used in larger quantities ensure a spillage action plan is in place. Evacuate area. Control the source and/or contain the spill if safe and able to do so. Use temporary diking, sand bags, dry sand, earth or proprietary booms/absorbent pads if available. Obtain advice on containment, neutralisation and clean-up from local emergency responders.

#### Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

### Section 7 - Handling and Storage

#### **Precautions for Safe Handling**

Ensure adequate ventilation. Do not breathe dust. Avoid contact with skin and eyes.

#### Conditions for Safe Storage, Including any Incompatibilities

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

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

## Section 8 - Exposure Controls and Personal Protection

#### **Exposure limits**

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	Australia	New Zealand WEL	ACGIH TLV	The United Kingdom	Germany
Diphosphoric acid,				STEL: 2 mg/m <sup>3</sup> 15 min	
iron(3+) salt (3:4)				TWA: 1 mg/m <sup>3</sup> 8 hr	
Sodium thioglycolate			TWA: 1 ppm		
			Skin		

#### **Biological limit values**

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

#### **Exposure Controls**

#### **Engineering Measures**

Provide appropriate exhaust ventilation at places where dust is formed.

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

#### 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.

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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

(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 special environmental precautions required. Avoid dust formation.

# Section 9 - Physical and Chemical Properties

#### Information on basic physical and chemical properties

AppearanceLight brownPhysical StatePowder

Odor
Odor No information available
No data available
PH 6.6 - 7.0 @ 25°C
Melting Point/Range
Not applicable
Softening Point
Boiling Point/Range
Flash Point
No data available
Not applicable
Not applicable
Not applicable

Evaporation Rate
No data available
Flammability (solid,gas)
No information available

Explosion Limits No data available

Vapor Pressure No data available Vapor Density No data available

Specific Gravity / Density
Bulk Density
Water Solubility
Solubility in other solvents

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

Partition Coefficient (n-octanol/water)

Component log Pow Sodium thioglycolate -3.78

Autoignition Temperature
Decomposition Temperature
Viscosity
Explosive Properties
Oxidizing Properties
Not applicable
No data available
No information available
No information available

Other information

# Section 10 - Stability and Reactivity

**Reactivity** None known, based on information available

Stability Stable under recommended storage conditions. Hygroscopic.

**Conditions to Avoid** Protect from direct sunlight, Protect from moisture, Avoid dust formation.

**Incompatible Materials** Strong oxidizing agents.

**Hazardous Decomposition Products** None under normal use conditions.

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Hazardous Polymerization Hazardous polymerization does not occur.

# Section 11 - Toxicological Information

**Information on Toxicological Effects** 

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

(a) acute toxicity;

OralNo data availableDermalNo data availableInhalationNo data available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Dithiothreitol	400 mg/kg ( Rat )				
Diphosphoric acid, iron(3+) salt (3:4)			LC50 > 5.19 mg/L (Rat) 4 h		
Sodium thioglycolate	504 mg/kg (Mouse) 50-200 mg/kg (Rat)	293 mg/kg (Mouse) 1000-2000 mg/kg (female 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

Sensitization None known

(e) germ cell mutagenicity; No data available

None known

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(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

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Symptoms / effects,both acute and No information available

delayed

# Section 12 - Ecological Information

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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

 Sodium thioglycolate
 EC50: 38 mg/L/48h

Persistence and Degradability Bioaccumulative Potential

Expected to be biodegradable Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)			
Sodium thioglycolate	-3.78	No data available			

**Mobility** 

The product is water soluble, and may spread in water systems.

Other adverse effects

**Ecotoxicity effects** 

None known

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential None known

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 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

Chemical wastes should be disposed through a licensed commercial waste collection service

### Section 14 - Transport Information

IMDG/IMO Not regulated

ADG Not regulated

IATA Not regulated

Environmental hazards No hazards identified

Special Precautions No special precautions required

Additional information None known

# Section 15 - Regulatory Information

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

National Regulations Australia

See section 8 for national exposure control parameters.

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#### Standard for the Uniform Scheduling of Medicines and Poisons

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons.

Component	Standard for the Uniform Scheduling of Medicines and Poisons				
Diphosphoric acid, iron(3+) salt (3:4) -	Schedule 2 listed				
10058-44-3	Schedule 4 listed - in injectable preparations for human use				
	Schedule 5 listed - for the treatment of animals except up to 1% of Iron oxides when present as an				
	excipient;in preparations for injection except in preparations containing <=0.1% of Iron				
	Schedule 5 listed - for the treatment of animals except up to 1% of Iron oxides when present as an				
	excipient;in other preparations except in liquid or gel preparations containing <=0.1% of Iron, or in animal feeds or feed premixes				
	Schedule 5 listed - for use as agricultural chemicals except in preparations containing <=4% of Iron				
	Schedule 6 listed - except up to 1% of Iron oxides when present as an excipient. For the treatment of				
	animals except: when included in Schedule 5, in liquid or gel preparations containing <=0.1% of Iron,				
	or in animal feeds or feed premixes				
Sodium thioglycolate - 367-51-1	Schedule 5 listed - in cosmetic preparations containing Mercaptoacetic acid or its salts (as Mercapturic				
	acid);except in preparations containing <=5% of Mercaptoacetic acid or its salts (as Mercapturic acid)				
	Schedule 6 listed - in cosmetic preparations except: when included in Schedule 5 or in preparations				
	containing <=5% of Mercaptoacetic acid or its salts, as Mercapturic acid				

#### **Australian Industrial Chemicals Introduction Scheme (AICIS)**

Component	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Dithiothreitol - 3483-12-3	Present	-
Diphosphoric acid, iron(3+) salt (3:4) - 10058-44-3	Present	-
Sodium thioglycolate - 367-51-1	Present	-

#### Australian - Illicit Drug Precursors/Reagents Substance List

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

#### **Chemicals of Security Concern**

This product does not contain any substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern

National pollutant inventory Not applicable

#### Prohibition or notification/licensing requirements

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

This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction.

#### **International Inventories**

Component	AICS	NZIoC	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	<b>ENCS</b>	ISHL	IECSC	KECL
Dithiothreitol	Х	Х	222-468-7	-	X	Х	-	Х	-		Х	-
Diphosphoric acid, iron(3+) salt (3:4)	Х	Х	233-190-0	-	Х	Х	-	-	-		-	KE-33524
Sodium thioglycolate	Х	Х	206-696-4	-	X	Х	-	Х	Х	Х	Х	KE-33787

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

#### International Regulations

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

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

Rotterdam Convention (PIC) Not applicable

Basel convention on the control of transboundary movements of hazardous wastes and their dispoal Not applicable.

Component			Restriction of Hazardous Substances (RoHS)	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
Dithiothreitol	3483-12-3	Not applicable	Not applicable	Not applicable	Not applicable
Diphosphoric acid, iron(3+) salt (3:4)	10058-44-3	Not applicable	Not applicable	Not applicable	Not applicable
Sodium thioglycolate	367-51-1	Not applicable	Not applicable	Not applicable	Not applicable

Authorisation/Restrictions according to EU REACH

Not applicable

### Section 16 - Other Information

#### Legend

AICS - Australian Inventory of Chemical Substances

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

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

**MARPOL** - International Convention for the Prevention of Pollution from Ships

NZS 5433:2020 - Transport of Dangerous Goods on Land

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)

NZIoC - New Zealand Inventory of Chemicals

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

Predicted No Effect Concentration (PNEC)

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

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

**OECD** - Organisation for Economic Co-operation and Development

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

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

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

#### **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.

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This Safety Data Sheet (SDS) is prepared in accordance to and complies with the requirements of Safe Work Australia - Work Health and Safety Regulations (WHS Regulations).

#### 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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