

Australian statement of hazardous nature : Classified as not hazardous according to criteria of Safe Work Australia.

Section 1 - Identification

Product Name Antifoam AF

Product Code AFE-0100

Address ThermoFisher Scientific Australia Pty Ltd

5 Caribbean Drive, Scoresby VICTORIA 3179, Australia

Emergency Tel. CHEMTREC®

03 9757 4559 or +613 9757 4559

Telephone / Fax Numbers Tel: 1300 735 292

Fax: 1800 067 639

E-mail address ANZinfo@thermofisher.com

Recommended Use In vitro methods.

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

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

AUS-001023A Version 2 14-Jul-2023 Page 1/10

Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
Process water	7732-18-5	>60
Octamethylcyclotetrasiloxane	556-67-2	>30
Poly(dimethylsiloxane)	63148-62-9	>10
Polyethylene glycol	25322-68-3	1-5
Polyethylene glycol stearate	9004-99-3	>3
Glycerides, C14-18 mono- and di-	67701-33-1	>3

Section 4 - First Aid Measures

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

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

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

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

medical attention.

General Advice If symptoms persist, call a physician.

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

None reasonably foreseeable. . Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting

Notes to Physician Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. Water mist may be used to cool closed containers.

Extinguishing media which must not be used for safety reasons

No information available.

Specific Hazards Arising from the Chemical

None known. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

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

Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

AUS-001023A Version 2 14-Jul-2023 Page 2 / 10

Environmental Precautions

Should not be released into the environment.

Methods for Containment and Clean Up

Clean-up methods - small spillage

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Clean-up methods - large spillage

Not applicable, packaged goods.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

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

AS 1940-2004 - The storage and handling of flammable and combustible liquids

Section 8 - Exposure Controls and Personal Protection

Exposure limits

DE - MAK and BAT values of Hazardous Chemical Compounds in the Work Area. Published by German Research Foundation on July 1, 2011

Component	Australia	New Zealand WEL	ACGIH TLV	The United Kingdom	Germany
Polyethylene glycol					TWA: 200 mg/m ³ (8
					Stunden). AGW -
					exposure factor 2
					TWA: 250 mg/m ³ (8
					Stunden). MAK average
					molecular weight
					200-600;because
					formation of a mist is
					possible, exposure
					should be minimized for
					reasons of occupational
					safety and hygiene
					Höhepunkt: 500 mg/m ³

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

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment.

AUS-001023A Version 2 14-Jul-2023 Page 3/10

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
Natural rubber See manufacturers - AS/NZS 2161 (minimum requirement)
Nitrile rubber recommendations
Neoprene
PVC

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

Liquid

and maintenance of repiratory protective devices

Recommended Filter type: Particulates filter conforming to EN 143 (or AUS/NZ equivalent)

Recommended half mask:- Particle filtering: EN149:2001 (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

Appearance White to off-white

Physical State Liquid

Odor No information available

Odor Threshold
pH
Not applicable 2.1
Melting Point/Range
Not data available
No data available
No data available
No data available
Not applicable

Flash Point Not applicable Method - No information available

Evaporation Rate No data available Flammability (solid,gas) Not applicable

Explosion Limits No data available

Vapor Pressure No data available
Vapor Density No data available

Vapor Density
No data available
(Air = 1.0)
Specific Gravity / Density
No data available

Bulk Density Not applicable Liquid

Water Solubility
Solubility
No information available
No information available

Partition Coefficient (n-octanol/water)

AUS-001023A Version 2 14-Jul-2023 Page 4/10

Componentlog PowOctamethylcyclotetrasiloxane6.488

Autoignition Temperature
Decomposition Temperature
Viscosity
No data available
No data available
No data available
Explosive Properties

Oxidizing Properties No information available

explosive air/vapour mixtures possible

Other information

Section 10 - Stability and Reactivity

Reactivity None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products, Excess heat, Keep away from open flames, hot surfaces and

sources of ignition.

Incompatible Materials None known.

Hazardous Decomposition Products None under normal use conditions.

Hazardous Polymerization No information available.

Section 11 - Toxicological Information

Information on Toxicological Effects

Product InformationNo acute toxicity information is available for this product

(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

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Process water	LD50 > 90 mL/kg (Rat)		
Octamethylcyclotetrasiloxane	LD50 > 4800 mg/kg (Rat male)	LD50 > 2375 mg/kg (Rat)	LC50 = 36 mg/L (Rat) 4 h
Poly(dimethylsiloxane)	LD50 > 24 g/kg (Rat)		
Polyethylene glycol	LD50 = 22 g/kg(Rat)	LD50 > 20 g/kg (Rabbit)	
Polyethylene glycol stearate	LD50 = 53 mL/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

Component	Test method	Test species	Study result
Polyethylene glycol	in vivo: Test method Human	Man	non-sensitising
25322-68-3 (1-5)	Repeat Insult Patch Test		_

AUS-001023A Version 2 14-Jul-2023 Page 5 / 10

(e) germ cell mutagenicity; No data available

Component	Test method	Test species	Study result		
Polyethylene glycol	OECD Test Guideline 471	in vivo	negative		
25322-68-3 (1-5)			_		

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

Category 2 (g) reproductive toxicity;

No data available (h) STOT-single exposure:

(i) STOT-repeated exposure: No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Other Adverse Effects The toxicological properties have not been fully investigated.

delayed

Symptoms / effects, both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Section 12 - Ecological Information

Ecotoxicity effects Do not empty into drains. .

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Octamethylcyclotetrasiloxane	LC50: > 500 mg/L, 96h (Brachydanio rerio) LC50: > 1000 mg/L, 96h (Lepomis macrochirus)			
Polyethylene glycol	LC50 > 100 mg/L 96h, (Poecilia reticulata) OECD Guideline 203	EC50 > 100 mg/L 48h, (Daphnia magna) OECD Guideline 202	EC50 > 100 mg/L 96h, (Scenedesmus subspicatus) OECD Guideline 201	
Glycerides, C14-18 mono- and di-	LC50: > 10000 mg/L, 96h (Brachydanio rerio)			

Persistence and Degradability No information available **Bioaccumulative Potential** No information available

Component	log Pow	Bioconcentration factor (BCF)
Octamethylcyclotetrasiloxane	6.488	12400 dimensionless

Mobility

No information available.

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 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

Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and

AUS-001023A Version 2 14-Jul-2023 Page 6/10 empty container away from heat and sources of ignition.

Other Information Chemical wastes should be disposed through a licensed commercial waste collection

service. Waste codes should be assigned by the user based on the application for which the product was used. Do not flush to sewer. Can be landfilled or incinerated, when in

compliance with local regulations.

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.

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
Polyethylene glycol - 25322-68-3	Schedule 2 listed
	Schedule 3 listed

Australian Industrial Chemicals Introduction Scheme (AICIS)

Component	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Process water - 7732-18-5	Present	-
Octamethylcyclotetrasiloxane - 556-67-2	Present	•
Poly(dimethylsiloxane) - 63148-62-9	Present	-
Polyethylene glycol - 25322-68-3	Present	•
Polyethylene glycol stearate - 9004-99-3	Present	-
Glycerides, C14-18 mono- and di 67701-33-1	Present	<u>-</u>

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

AUS-001023A Version 2 14-Jul-2023 Page 7/10

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	ENCS	ISHL	IECSC	KECL
Process water	Χ	X	231-791-2	-	X	X	-	Х	Х		Х	KE-35400
Octamethylcyclotetrasi loxane	Х	Х	209-136-7	-	Х	Х	-	Х	Х	Х	Х	KE-26606
Poly(dimethylsiloxane)	Х	Х	-	-	Х	Х	-	Х	Х		Х	KE-31068
Polyethylene glycol	X	X	-	-	X	Х	-	Χ	Χ	Х	Χ	KE-20228
Polyethylene glycol stearate	Х	Х	=	-	Х	Х	-	Х	-		Х	KE-27617
Glycerides, C14-18 mono- and di-	Х	Х	266-952-6	-	X	X	-	Х	Х	X	Х	KE-17918

Legend: X - Listed. '-' - Not Listed. T - Indicates a substance that is the subject of a Section 4 test rule under TSCA. XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B). **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

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	CAS No	OECD HPV	Restriction of	Seveso III Directive	Seveso III Directive
			Hazardous	(2012/18/EC) -	(2012/18/EC) -
			Substances (RoHS)	Qualifying Quantities	Qualifying Quantities
				for Major Accident	for Safety Report
				Notification	Requirements
Process water	7732-18-5	Listed	Not applicable	Not applicable	Not applicable
Octamethylcyclotetrasiloxane	556-67-2	Listed	Not applicable	Not applicable	Not applicable
Poly(dimethylsiloxane)	63148-62-9	Listed	Not applicable	Not applicable	Not applicable
Polyethylene glycol	25322-68-3	Listed	Not applicable	Not applicable	Not applicable
Polyethylene glycol stearate	9004-99-3	Not applicable	Not applicable	Not applicable	Not applicable
Glycerides, C14-18 mono-	67701-33-1	Listed	Not applicable	Not applicable	Not applicable
and di-					

Authorisation/Restrictions according to EU REACH

AUS-001023A Version 2 14-Jul-2023 Page 8 / 10

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	
Octamethylcyclotetrasiloxane	-	Use restricted. See item 70. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	SVHC Candidate list - 209-136-7 - PBT (Article 57d) vPvB (Article 57e)

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

https://echa.europa.eu/authorisation-list https://echa.europa.eu/candidate-list-table

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

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

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.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Revision Date 14-Jul-2023

Revision Summary Update to GHS format.

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

AUS-001023A Version 2 14-Jul-2023 Page 9/10

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

AUS-001023A Version 2 14-Jul-2023 Page 10 / 10