

# SAFETY DATA SHEET

Classified as hazardous according to criteria of EPA New Zealand

# Section 1 - Identification

Product Name

**Triethanolamine** 

Product Code	ACR13956, ACR42163, AJA787, ALFL04486	
Address	Thermo Fisher Scientific New Zealand Ltd	
	244 Bush Road, Albany,	
	Auckland, New Zealand	
Emergency Tel.	CHEMTREC®	
0	09 980 6780 or +64 9 980 6780	
Telephone / Fax Numbers	Tel: 09 980 6700	
•	Fax: 09 980 6788	
E-mail address	NZinfo@thermofisher.com	

**Recommended Use** 

Laboratory chemicals.

### Section 2 - Hazard(s) Identification

#### Classification under Work Safe New Zealand

6.1E - Substances that are acutely toxic (Oral)

6.3B - Substances that are mildly irritating to the skin

6.4A - Substances that are irritating to the eye

9.2D - Substances that are slightly harmful the soil environment

### Classified as hazardous according to criteria of EPA New Zealand

### HSNO Approval Number

HSR002785

### **GHS Classification**

#### Physical hazards

Based on available data, the classification criteria are not met

### Health hazards

Acute Oral Toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation

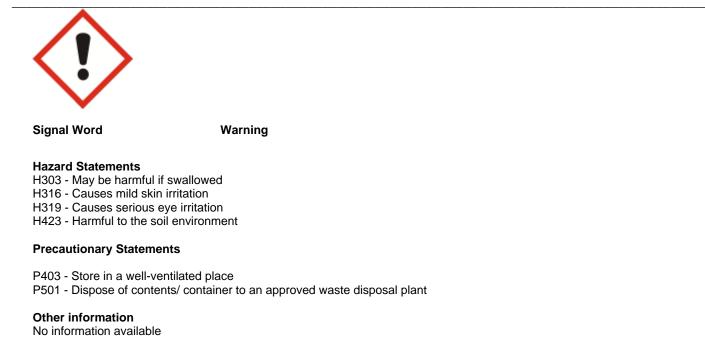
### Environmental hazards

### Label Elements

NZ-000523

Category 5 Category 3 Category 2

### Triethanolamine



# Section 3 - Composition and Information on Ingredients

Component	CAS-No	Weight %
Triethanolamine	102-71-6	>95

### **Section 4 - First Aid Measures**

Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. 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.
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

### 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.

#### Hazardous Combustion Products

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**

Ensure adequate ventilation. Use personal protective equipment as required. **Environmental Precautions** See Section 12 for additional Ecological Information. Should not be released into the environment.

### Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal.

### **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. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.

### Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

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

# Section 8 - Exposure Controls and Personal Protection

#### **Exposure limits**

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

Component	New Zealand WEL
Triethanolamine	TWA: 5 mg/m <sup>3</sup>

### **Biological limit values**

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

#### Engineering Measures

None under normal use conditions.

### Personal protective equipment

Eye ProtectionWear safety glasses with side shields (or goggles) (Australian/New Zealand Standard<br/>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, Nitrile	See manufacturers	-	AS/NZS 2161.1	(minimum requirement)
rubber, Neoprene, PVC.	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
Recommended Filter type: Recommended half mask:-	Particle filter (or AUS/NZ equivalent) Valve filtering: EN405 or Half mask: EN140 plus filter, EN 141 (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

Appearance Physical State	Light yellow Viscous liquid Liquid	
Odor Odor Threshold pH Melting Point/Range Softening Point Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas)	No information available No data available 10.5 21 °C / 69.8 °F No data available 360 °C / 680 °F 190 °C / 374 °F No data available Not applicable	<b>Method -</b> No information available
Explosion Limits	No data available	
Vapor Pressure Vapor Density Specific Gravity / Density Bulk Density Water Solubility Solubility in other solvents	No data available No data available No data available Not applicable Very soluble No information available	(Air = 1.0) Liquid
Partition Coefficient (n-octanol/wa		
Component Triethanolamine Autoignition Temperature Decomposition Temperature Viscosity Explosive Properties Oxidizing Properties	log Pow -2.53 No data available No data available No data available No information available No information available	
<u>Other information</u> Molecular Formula	C6 H15 N O3	

### Section 10 - Stability and Reactivity

149.19

Reactivity	None known, based on information available
Stability	Stable under normal conditions.

Molecular Weight

**Conditions to Avoid** 

Incompatible products, Excess heat.

Hazardous Decomposition Products None under normal use conditions.

**Hazardous Polymerization** 

Hazardous polymerization does not occur.

# **Section 11 - Toxicological Information**

### Information on Toxicological Effects

<b>Product Information</b>
(a) acute toxicity;
Oral
Dermal
Inhalation

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

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Triethanolamine	LD50 = 4190 mg/kg (Rat)	>16 mL/kg (Rat)	
		>2000 mg/kg (Rabbit)	
(b) skin corrosion/irritation;	No data available		

(b) skin corrosion/irritation;

(c) serious eye damage/irritation; (d) respiratory or skin sensitization;		No data available
	Respiratory Skin	No data available No data available
	(e) germ cell mutagenicity;	No data available
	(f) carcinogenicity;	No data available
	(g) reproductive toxicity; (h) STOT-single exposure;	There are no known carcinogenic chemicals in this product No data available No data available
	(i) STOT-repeated exposure;	No data available
	Target Organs (j) aspiration hazard;	No information available. No data available
	Cumutana / offerte beth south and	No information available

Symptoms / effects, both acute and No information available delayed

# Section 12 - Ecological Information

### **Ecotoxicity effects**

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Triethanolamine	LC50: > 1000 mg/L, 96h static (Pimephales promelas) LC50: 10600 - 13000 mg/L, 96h flow-through (Pimephales promelas) LC50: 450 - 1000 mg/L, 96h static (Lepomis macrochirus)		EC50: = 169 mg/L, 96h (Desmodesmus subspicatus) EC50: = 216 mg/L, 72h (Desmodesmus subspicatus)	EC50 > 10000 mg/L 30 min
Persistence and Degradability Persistence	No information availat Persistence is unlikely			

### **Bioaccumulative Potential**

Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)				
Triethanolamine	-2.53	<3.9 OECD 305C				
Mobility	No information available.					
Endocrine Disruptor Information	This product does not contain any known or suspected endocrine disruptors					
Persistent Organic Pollutant	This product does not contain any known or suspected substance					
Ozone Depletion Potential	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	Disposal agencies or waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Regulations .

# Section 14 - Transport Information

IMDG/IMO	Not regulated
NZS 5433:2012	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

Component	HSNO Approval Number
Triethanolamine	HSR002785

International Inventories

X = listed

Component	NZIoC	AICS	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	KECL
Triethanolamine	Х	Х	203-049-	-	Х	Х	-	Х	Х	Х	KE-2594
			8								0

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

# Section 16 - Other Information

This safety data sheet complies with the requirements of WorkSafe New Zealand Regulations

### Legend

AICS - Australian Inventory of Chemical Substances NZIOC - New Zealand Inventory of Chemicals TSCA - United States Toxic Substances Control Act Section 8(b) EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic **ENCS** - Japanese Existing and New Chemical Substances Substances List IECSC - Chinese Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances CAS - Chemical Abstracts Service TWA - Time Weighted Average ACGIH - American Conference of Governmental Industrial Hygienists IARC - International Agency for Research on Cancer Predicted No Effect Concentration (PNEC) ICAO/IATA - International Civil Aviation Organization/International Air IMO/IMDG - International Maritime Organization/International Maritime Transport Association Dangerous Goods Code MARPOL - International Convention for the Prevention of Pollution from ADG Australian Code for the Transport of Dangerous Goods by Road and Rail Ships NZS 5433:2012 - Transport of Dangerous Goods on Land **OECD** - Organisation for Economic Co-operation and Development LD50 - Lethal Dose 50% LC50 - Lethal Concentration 50% EC50 - Effective Concentration 50% ATE - Acute Toxicity Estimate WEL - Workplace Exposure Limit **RPE** - Respiratory Protective Equipment **DNEL** - Derived No Effect Level NOEC - No Observed Effect Concentration POW - Partition coefficient Octanol:Water BCF - Bioconcentration factor vPvB - very Persistent, very Bioaccumulative PBT - Persistent, Bioaccumulative, Toxic VOC (volatile organic compound)

Key literature references and sources for data 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	04-Jul-2020
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**