

Australian statement of hazardous nature: Classified as hazardous according to criteria of Safe Work Australia

### Section 1 - Identification

Product Name Ammonia, ca 7N solution in methanol

Product Code 428380000; 428380010; 428381000; 428388000

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 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 contains one or more 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 hazardous according to criteria of Safe Work Australia

Physical hazards

Flammable liquids Category 2

**Health hazards** 

Acute Oral ToxicityCategory 3Acute Dermal ToxicityCategory 3Acute Inhalation Toxicity - VaporsCategory 3Skin Corrosion/IrritationCategory 1 BSerious Eye Damage/Eye IrritationCategory 1

Specific target organ toxicity - (single exposure)

Category 1

Category 1

**Environmental hazards** 

Chronic aquatic toxicity Category 3

**Label Elements** 

ACR42838 Version 3 17-Nov-2022 Page 1/12









Flame

Skull and Crossbones

Health Hazard

### Signal Word

### Danger

#### **Hazard Statements**

H225 - Highly flammable liquid and vapor

H314 - Causes severe skin burns and eye damage

H370 - Causes damage to organs

H412 - Harmful to aquatic life with long lasting effects

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled

### **Precautionary Statements**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P233 - Keep container tightly closed

P240 - Ground and bond container and receiving equipment

P242 - Use non-sparking tools

P243 - Take action to prevent static discharges

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P284 - Wear respiratory protection

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

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

P330 - Rinse mouth

P331 - Do NOT induce vomiting

P363 - Wash contaminated clothing before reuse

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

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

#### Other information

Toxic to terrestrial vertebrates

## Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
Ammonia	7664-41-7	12
Methyl alcohol	67-56-1	88

## Section 4 - First Aid Measures

### Inhalation

If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask

ACR42838 Version 3 17-Nov-2022 Page 2/12

equipped with a one-way valve or other proper respiratory medical device. Remove to fresh

air. Immediate medical attention is required.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

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

the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

**General Advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

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

Causes burns by all exposure routes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe

damage to the delicate tissue and danger of perforation

Notes to Physician Treat symptomatically.

# Section 5 - Fire Fighting Measures

### **Suitable Extinguishing Media**

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam. Water mist may be used to cool closed containers.

### Extinguishing media which must not be used for safety reasons

No information available.

#### **Hazardous Decomposition Products**

Nitrogen oxides (NOx), Ammonia, Formaldehyde.

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. 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. Thermal decomposition can lead to release of irritating gases and vapors.

## Section 6 - Accidental Release Measures

#### **Emergency procedures**

Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges.

### **Environmental Precautions**

Do not flush into surface water or sanitary sewer system.

### Methods for Containment and Clean Up

Clean-up methods - small spillage

ACR42838 Version 3 17-Nov-2022 Page 3/12

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

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**

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

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

Keep away from heat, sparks and flame. Refrigerator/flammables. Corrosives area. Store under an inert atmosphere. Protect from moisture. Keep containers tightly closed in a dry, cool and well-ventilated place.

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**

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 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. UK - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020. 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
Ammonia	STEL: 35 ppm	TWA: 25 ppm	TWA: 25 ppm	STEL: 35 ppm 15 min	TWA: 20 ppm (8
	STEL: 24 mg/m <sup>3</sup>	TWA: 17 mg/m <sup>3</sup>	STEL: 35 ppm	STEL: 25 mg/m <sup>3</sup> 15 min	Stunden). AGW -
	TWA: 25 ppm	STEL: 35 ppm		TWA: 25 ppm 8 hr	exposure factor 2
	TWA: 17 mg/m <sup>3</sup>	STEL: 24 mg/m <sup>3</sup>		TWA: 18 mg/m <sup>3</sup> 8 hr	TWA: 14 mg/m <sup>3</sup> (8
	_	_		_	Stunden). AGW -
					exposure factor 2
					TWA: 20 ppm (8
					Stunden). MAK
					TWA: 14 mg/m <sup>3</sup> (8
					Stunden). MAK
					Höhepunkt: 40 ppm
					Höhepunkt: 28 mg/m <sup>3</sup>
Methyl alcohol	STEL: 250 ppm	TWA: 200 ppm	TWA: 200 ppm	WEL - TWA: 200 ppm	100 ppm TWA MAK;
	STEL: 328 mg/m <sup>3</sup>	TWA: 262 mg/m <sup>3</sup>	STEL: 250 ppm	TWA; 266 mg/m <sup>3</sup> TWA	130 mg/m <sup>3</sup> TWA
	TWA: 200 ppm	STEL: 250 ppm	Skin	WEL - STEL: 250 ppm	MAKSkin absorber
	TWA: 262 mg/m <sup>3</sup>	STEL: 328 mg/m <sup>3</sup>		STEL; 333 mg/m <sup>3</sup> STEL	
		Skin			

### **Biological limit values**

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

ACR42838 Version 3 17-Nov-2022 Page 4/12

Component	Australia	New Zealand	European Union	United Kingdom	Germany
Methyl alcohol		15 mg/L (urine) end of shift (Methyl alcohol)			Methanol: 15 mg/L urine (end of shift) Methanol: 15 mg/L urine
					(for long-term exposures: at the end of the shift after several shifts)

### **Exposure Controls**

### **Engineering Measures**

Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. 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

Personal protective equipment

Eye Protection 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

and maintenance of repiratory protective devices

Recommended Filter type: Particulates filter conforming to EN 143 or Inorganic gases and vapours filter Type B Grey

conforming to EN14387 (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** Prevent product from entering drains. Do not allow material to contaminate ground water

system. Local authorities should be advised if significant spillages cannot be contained.

# Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Clear Colorless - Light yellow

Physical State Liquid

Odor Ammonia-like
Odor Threshold No data available
pH Not applicable

ACR42838 Version 3 17-Nov-2022 Page 5 / 12

Melting Point/Range

Softening Point

No data available
No data available
No information available

Boiling Point/Range No information available

Flash Point 14 °C / 57.2 °F Method - No information available

Liquid

(Air = 1.0)

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

Specific Gravity / Density 0.770

Bulk Density Not applicable Liquid

Water Solubility
Solubility
No information available
No information available

Partition Coefficient (n-octanol/water)

Component log Pow Methyl alcohol -0.74

Autoignition Temperature

Decomposition Temperature

Viscosity

No data available
No data available
No data available

**Explosive Properties** 

Oxidizing Properties No information available

Vapors may form explosive mixtures with air

Other information

Molecular Formula H3 N Molecular Weight 17.03

# Section 10 - Stability and Reactivity

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

Stability Hygroscopic.

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

sources of ignition, Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents, Acids, Acid chlorides, Acid anhydrides, Strong reducing agents,

Water, Halogens.

Hazardous Decomposition Products Nitrogen oxides (NOx). Ammonia. Formaldehyde.

Hazardous Polymerization Hazardous polymerization does not occur.

# Section 11 - Toxicological Information

### Information on Toxicological Effects

### **Product Information**

(a) acute toxicity;

OralCategory 3DermalCategory 3InhalationCategory 3

### Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonia	LD50 = 350 mg/kg (Rat)		$LC50 = 9850 \text{ mg/m}^3 \text{ (Rat) 1 h}$
			LC50 = 13770 mg/m <sup>3</sup> (Rat) 1 h

ACR42838 Version 3 17-Nov-2022 Page 6/12

Methyl alcohol   LD50 = 1187 – 2769 mg/kg (Rat)  LD50 = 17100 mg/kg ( Rabbit )   LC50 = 128.2 mg/L ( I	at ) 4 h

Category 1 B (b) skin corrosion/irritation;

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

Respiratory No data available No data available Skin

Component	Test method	Test species	Study result
Methyl alcohol	OECD Test Guideline 406	guinea pig	non-sensitising
67-56-1 (88)	Guinea Pig Maximisation Test		_
	(GPMT)		

No data available (e) germ cell mutagenicity;

No data available (f) carcinogenicity;

There are no known carcinogenic chemicals in this product

No data available (a) reproductive toxicity:

Component	Test method	Test species / Duration	Study result
Methyl alcohol	OECD Test Guideline 416	Rat / Inhalation 2 Generation	NOAEC = 1.3 mg/l (air)
67-56-1 ( 88 )			

Category 1 (h) STOT-single exposure;

Results / Target organs Optic nerve

Central nervous system (CNS)

No data available (i) STOT-repeated exposure;

**Target Organs** No information available.

No data available (j) aspiration hazard;

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

delayed

Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and

danger of perforation

# Section 12 - Ecological Information

**Ecotoxicity effects** The product contains following substances which are hazardous for the environment. Contains a substance which is:. Very toxic to aquatic organisms.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Ammonia	LC50: 0.26 - 4.6 mg/L,	EC50 = 25.4 mg/L, 48h		EC50 = 2.0 mg/L 5 min
	96h (Lepomis	(Daphnia magna)		
	macrochirus)	NOEC = 0.79 mg/L		
	LC50: = 1.17 mg/L, 96h	(Daphnia magna)		
	flow-through (Lepomis			
	macrochirus)			
	LC50: 0.73 - 2.35 mg/L,			
	96h (Pimephales			
	promelas)			
	LC50: = 5.9  mg/L. 96h			

**ACR42838** Version 3 17-Nov-2022 Page 7/12

	static (Pimephales promelas) LC50: > 1.5 mg/L, 96h (Poecilia reticulata) LC50: = 1.19 mg/L, 96h static (Poecilia reticulata) LC50: = 0.44 mg/L, 96h (Cyprinus carpio)	
Methyl alcohol	Pimephales promelas: LC50 > 10000 mg/L 96h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min

Persistence and Degradability

No information available Persistence is unlikely.

Persistence

Net relevant for income is a substant

Degradability

Not relevant for inorganic substances.

Component	Degradability
Methyl alcohol	DT50 ~ 17.2d
67-56-1 ( 88 )	>94% after 20d

Degradation in sewage treatment plant Bioaccumulative Potential Contains substances known to be hazardous to the environment or not degradable in waste

water treatment plants. Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)	
Methyl alcohol	-0.74	<10 dimensionless	
Mobility	No information available.		
<b>Endocrine Disruptor Information</b>	This product does not contain any known or suspected endocrine disruptors		
Persistent Organic Pollutant	This product does not contain any known or suspected substance		

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential

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 empty container away from heat and sources of ignition.

**Other Information** 

Chemical wastes should be disposed through a licensed commercial waste collection service. Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Can be landfilled or incinerated, when in compliance with local regulations. Do not empty into drains. Large amounts will affect pH and harm aquatic organisms. Do not let this chemical enter the environment.

# Section 14 - Transport Information

### IMDG/IMO

UN-No UN3286

**Proper Shipping Name** Flammable liquid, toxic, corrosive, n.o.s.

Technical Shipping Name Methanol, ammonia

Hazard Class 3 Subsidiary Hazard Class 6.1, 8 Packing Group II

Component	IMDG Marine Pollutant		
Ammonia	IMDG regulated marine pollutant (UN1005)		

ACR42838 Version 3 17-Nov-2022 Page 8/12

7664 41 7 / 12 )	
/004-41-7 (12)	

### ADG

UN-No UN3286

**Proper Shipping Name** Flammable liquid, toxic, corrosive, n.o.s.

Technical Shipping Name Methanol, ammonia

Hazard Class 3
Subsidiary Hazard Class 6.1, 8
Packing Group

Component	Hazchem Code
Ammonia	2X
7664-41-7 ( 12 )	2XE
Methyl alcohol	2WE
67-56-1 ( 88 )	

#### IATA

UN-No UN3286

**Proper Shipping Name** FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.\*

Technical Shipping Name Methanol, ammonia

Hazard Class 3 Subsidiary Hazard Class 6.1, 8 Packing Group II

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
Ammonia - 7664-41-7	Schedule 5 listed - except its salts and derivatives other than Ammonium hydroxide;in preparations
	except: in preparations for human internal therapeutic use, in preparations for inhalation when
	absorbed in an inert solid material, or in preparations containing <=0.5% of free Ammonia
	Schedule 6 listed - except its salts and derivatives other than Ammonium hydroxide;except: when
	included in Schedule 5, in preparations for human internal therapeutic use, in preparations for
	inhalation when absorbed in an inert solid material, or in preparations containing <=0.5% of Ammonia
Methyl alcohol - 67-56-1	Schedule 5 listed - except its derivatives;in preparations except a) when included in Schedule 10, or b)
	in preparations containing <=2% of Methanol, or c) when Methanol is present only as a denaturant of
	Ethanol
	Schedule 6 listed - except its derivatives; except a) when included in Schedule 5, or b) when included in
	Schedule 10, or c) in preparations containing <=2% of Methanol
	Schedule 10 listed

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

Component Australian industrial Additional information
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ACR42838 Version 3 17-Nov-2022 Page 9/12

	Chemicals Introduction Scheme (AICIS)	
Ammonia - 7664-41-7	Present	-
Methyl alcohol - 67-56-1	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 contains one or more substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern

Component	Australian - Illicit Drug Precursors/Reagents Substance List	Chemicals of Security Concern
Ammonia - 7664-41-7		Listed in Appendix A

#### Legend

Chemicals of Security Concern - for further information see http://www.chemicalsecurity.gov.au/securityconcerns

National pollutant inventory Subject to reporting requirements

Component	National pollutant inventory
Ammonia - 7664-41-7	10 tonne/yr. Threshold category 1 total
Methyl alcohol - 67-56-1	10 tonne/yr. Threshold category 1

### 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
Ammonia	X	X	231-635-3	-	X	Χ	-	Х	Х	Х	Х	KE-01625
Methyl alcohol	Х	Х	200-659-6	-	X	Χ	-	Х	Х	Х	Х	KE-23193

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

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

Rotterdam Convention (PIC) Not applicable

### MARPOL - International Convention for the

Prevention of Pollution from Ships

Component	IMDG Marine Pollutant
Ammonia - 7664-41-7	IMDG regulated marine pollutant (UN1005)

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

ACR42838 Version 3 17-Nov-2022 Page 10 / 12

Component	CAS No	OECD HPV	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
Ammonia	7664-41-7	Listed	Not applicable	50 tonne	200 tonne
Methyl alcohol	67-56-1	Listed	Not applicable	500 tonne	5000 tonne

### 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	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Ammonia	-	Use restricted. See item 75. (see link for restriction details)	-
Methyl alcohol	-	Use restricted. See item 69. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	-

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 Shins

NZS 5433:2012 - 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

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards On basis of test data **Health Hazards** Calculation method Calculation method **Environmental hazards** 

### **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.

Page 11/12 **ACR42838** Version 3 17-Nov-2022

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Revision Date 17-Nov-2022 Revision Summary Not applicable.

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**

ACR42838 Version 3 17-Nov-2022 Page 12 / 12