

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

## Section 1 - Identification

Product Name Shandon CytoRich Red Collection Fluid

Product Code ALPB9990800, ALPB9990801, ALPB9990802, ALPB9990803

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Recommended Use Laboratory chemicals.

Uses advised against

Verify requirements related to using, handling and storing these substances. This product

contains one or more substance(s) on the Illicit Drug Precursors/Reagents list. This product contains one or more substance(s) subject to Prohibition, Authorization or Restriction. Verify that requirements related to using, handling, and storing substances subject to prohibition, authorization or restriction are met. 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 hazardous according to criteria of Safe Work Australia

## Physical hazards

Flammable liquids Category 3

### **Health hazards**

Acute Oral ToxicityCategory 4Acute Inhalation Toxicity - VaporsCategory 3Skin Corrosion/IrritationCategory 2Serious Eye Damage/Eye IrritationCategory 2Skin SensitizationCategory 1Germ Cell MutagenicityCategory 2CarcinogenicityCategory 1B

Specific target organ toxicity - (single exposure)

Category 3 Category 1

### **Environmental hazards**

No hazards identified

### **Label Elements**

AUS-003320 Version 2 14-Jul-2023 Page 1/14







Flame

Skull and Crossbones

Health Hazard

## Signal Word

## **Danger**

### **Hazard Statements**

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H336 - May cause drowsiness or dizziness

H341 - Suspected of causing genetic defects if inhaled

H350 - May cause cancer

H370 - Causes damage to organs

### **Precautionary Statements**

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

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

P272 - Contaminated work clothing should not be allowed out of the workplace

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

P311 - Call a POISON CENTER or doctor

P330 - Rinse mouth

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

This product does not contain any known or suspected endocrine disruptors

# Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
Water	7732-18-5	60-63
Isopropyl alcohol	67-63-0	20-23
Methyl alcohol	67-56-1	7-10
Ethylene glycol	107-21-1	6-8

AUS-003320 Version 2 14-Jul-2023 Page 2/14

Formaldehyde	50-00-0	1-3
Monosodium phosphate	1333-80-8	<1
Sodium hydroxide	1310-73-2	<1
Sodium chloride	7647-14-5	<1
Sodium acetate	127-09-3	<1
FD&C red No. 40	25956-17-6	<1

## Section 4 - First Aid Measures

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

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.

Eye 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 No special precautions required. Use personal protective equipment as required.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

None reasonably foreseeable. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

**Notes to Physician** Treat symptomatically. Symptoms may be delayed.

# Section 5 - Fire Fighting Measures

## **Suitable Extinguishing Media**

Water spray, carbon dioxide (CO2), dry chemical, 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**

Carbon monoxide (CO), Carbon dioxide (CO2), Thermal decomposition can lead to release of irritating gases and vapors.

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

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Vapors may form explosive mixtures with air.

### 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

AUS-003320 Version 2 14-Jul-2023 Page 3 / 14

**Emergency procedures** 

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

### **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

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**

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. 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. Take precautionary measures against static discharges.

## Conditions for Safe Storage, Including any Incompatibilities

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

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

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

L	Component	Australia	New Zealand WEL	ACGIH TLV	The United Kingdom	Germany
Г	Isopropyl alcohol	STEL: 500 ppm	TWA: 400 ppm	TWA: 200 ppm	STEL: 500 ppm 15 min	TWA: 200 ppm (8
		STEL: 1230 mg/m <sup>3</sup>	TWA: 983 mg/m <sup>3</sup>	STEL: 400 ppm	STEL: 1250 mg/m <sup>3</sup> 15	Stunden). AGW -
		TWA: 400 ppm	STEL: 500 ppm		min	exposure factor 2
		TWA: 983 mg/m <sup>3</sup>	STEL: 1230 mg/m <sup>3</sup>		TWA: 400 ppm 8 hr	TWA: 500 mg/m <sup>3</sup> (8
		_	_		TWA: 999 mg/m <sup>3</sup> 8 hr	Stunden). AGW -
						exposure factor 2
L						TWA: 200 ppm (8

AUS-003320 Version 2 14-Jul-2023 Page 4/14

Methyl alcohol	STEL: 250 ppm STEL: 328 mg/m³ TWA: 200 ppm TWA: 262 mg/m³	TWA: 200 ppm TWA: 262 mg/m³ STEL: 250 ppm STEL: 328 mg/m³ Skin	TWA: 200 ppm STEL: 250 ppm Skin	WEL - TWA: 200 ppm TWA; 266 mg/m³ TWA WEL - STEL: 250 ppm STEL; 333 mg/m³ STEL	Stunden). MAK TWA: 500 mg/m³ (8 Stunden). MAK Höhepunkt: 400 ppm Höhepunkt: 1000 mg/m³ 100 ppm TWA MAK; 130 mg/m³ TWA MAKSkin absorber
Ethylene glycol	STEL: 40 ppm STEL: 104 mg/m³ TWA: 10 mg/m³ TWA: 20 ppm TWA: 52 mg/m³	Ceiling: 50 ppm Ceiling: 127 mg/m <sup>3</sup>	TWA: 25 ppm STEL: 50 ppm STEL: 10 mg/m³	STEL: 40 ppm 15 min STEL: 104 mg/m³ 15 min STEL: 30 mg/m³ 15 min TWA: 10 mg/m³ 8 hr TWA: 20 ppm 8 hr TWA: 52 mg/m³ 8 hr Skin	TWA: 10 ppm (8 Stunden). AGW - exposure factor 2 TWA: 26 mg/m³ (8 Stunden). AGW - exposure factor 2 TWA: 10 ppm (8 Stunden). MAK can occur as vapor and aerosol at the same time TWA: 26 mg/m³ (8 Stunden). MAK can occur as vapor and aerosol at the same time Höhepunkt: 20 ppm Höhepunkt: 52 mg/m³ Haut
Formaldehyde	STEL: 2 ppm STEL: 2.5 mg/m³ TWA: 1 ppm TWA: 1.2 mg/m³	TWA: 0.3 ppm STEL: 0.6 ppm	TWA: 0.1 ppm STEL: 0.3 ppm	STEL: 2 ppm 15 min STEL: 2.5 mg/m³ 15 min TWA: 2 ppm 8 hr TWA: 2.5 mg/m³ 8 hr Carc.	TWA: 0.3 ppm (8 Stunden). AGW - exposure factor 2 TWA: 0.37 mg/m³ (8 Stunden). AGW - exposure factor 2 TWA: 0.3 ppm (8 Stunden). MAK no irritation should occur during mixed exposure TWA: 0.37 mg/m³ (8 Stunden). MAK no irritation should occur during mixed exposure Höhepunkt: 0.6 ppm Höhepunkt: 0.74 mg/m³
Sodium hydroxide	2 mg/m³ TWA	Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	2 mg/m³ STEL	2 mg/m³ TWA (inhalable fraction)

## **Biological limit values**

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

Component	Australia	New Zealand	European Union	United Kingdom	Germany
Isopropyl alcohol					Acetone: 25 mg/L whole
					blood (end of shift )
					Acetone: 25 mg/L urine
					(end of shift)
Methyl alcohol		15 mg/L (urine) end of			Methanol: 15 mg/L urine
		shift (Methyl alcohol)			(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** 

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

AUS-003320 Version 2 14-Jul-2023 Page 5/14

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
Butyl rubber	> 480 minutes	0.5 mm	AS/NZS 2161	(minimum requirement)
Nitrile rubber	> 360 - 480 minutes	0.35 - 0.55 mm		
Viton (R)	> 480 minutes	0.4 mm		
Neoprene	< 40 minutes	0.7 mm		

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

Organic gases and vapours filter Type A Brown conforming to EN14387 (or AUS/NZ **Recommended Filter type:** 

equivalent)

Recommended half mask:-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. When using do not

eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

Prevent product from entering drains. Do not allow material to contaminate ground water **Environmental exposure controls** 

system.

## Section 9 - Physical and Chemical Properties

## Information on basic physical and chemical properties

**Appearance** Light red **Physical State** Liquid

Odor Characteristic Alcohol-like Odor

**Odor Threshold** No data available

7.4 - 7.6Ha

**Melting Point/Range** No data available **Softening Point** No data available **Boiling Point/Range** 83 °C / 181.4 °F Flash Point 27.8 °C / 82 °F

Method - No information available **Evaporation Rate** No data available

Flammability (solid,gas) Not applicable

Liquid **Explosion Limits** No data available

**Vapor Pressure** No data available

No data available (Air = 1.0)**Vapor Density** 

Specific Gravity / Density No data available Not applicable Liquid **Bulk Density** 

Miscible **Water Solubility** 

AUS-003320 Version 2 14-Jul-2023 Page 6/14

explosive air/vapour mixtures possible

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Componentlog PowIsopropyl alcohol0.05Methyl alcohol-0.74Ethylene glycol-1.36Formaldehyde-0.35Sodium acetate-4.22FD&C red No. 40-1.283

Autoignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosityNo data available

Explosive Properties

Oxidizing Properties No information available

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** Strong oxidizing agents, Strong acids.

Hazardous Decomposition Products Carbon monoxide (CO<sub>2</sub>). Thermal decomposition can lead to release

of irritating gases and vapors.

**Hazardous Polymerization** Hazardous polymerization does not occur.

# Section 11 - Toxicological Information

## Information on Toxicological Effects

## **Product Information**

(a) acute toxicity;

Oral Category 4

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

Inhalation Category 3

## Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	•	•
Isopropyl alcohol	5045 mg/kg (Rat) 3600 mg/kg (Mouse)	12800 mg/kg (Rat)	72.6 mg/L (Rat)4 h
Methyl alcohol	LD50 = 1187 – 2769 mg/kg (Rat)	LD50 = 17100 mg/kg ( Rabbit )	LC50 = 128.2 mg/L (Rat) 4 h
Ethylene glycol	LD50 = 4700 mg/kg (Rat)	LD50 = 10600 mg/kg (Rat)	LC50 > 2.5 mg/L (Rat) 6 h
Formaldehyde	500 mg/kg (Rat)	LD50 = 270 mg/kg (Rabbit)	0.578 mg/L (Rat) 4 h
Sodium hydroxide	LD50 = 325 mg/kg (Rat)	LD50 = 1350 mg/kg ( Rabbit )	
Sodium chloride	LD50 = 3 g/kg ( Rat )	LD50 > 10000 mg/kg ( Rabbit )	LC50 > 42 mg/L (Rat) 1 h

AUS-003320 Version 2 14-Jul-2023 Page 7/14

Sodium acetate	LD50 = 3530 mg/kg (Rat)	LD50 > 10 g/kg (Rabbit)	LC50 > 30 g/m <sup>3</sup> (Rat) 1 h
FD&C red No. 40	LD50 > 10 g/kg (Rat)	LD50 = 10000 mg/kg ( Rabbit )	

(b) skin corrosion/irritation; Category 2

Category 2 (c) serious eye damage/irritation;

(d) respiratory or skin sensitization;

No data available Respiratory Skin Category 1

Component	Test method	Test species	Study result	
Methyl alcohol 67-56-1 ( 7-10 )	OECD Test Guideline 406 Guinea Pig Maximisation Test (GPMT)	guinea pig	non-sensitising	
Formaldehyde 50-00-0 ( 1-3 )	Skin sensitization Test method Patch Test Respiratory sensitization in vitro	Man guinea pig	Sensitizer Sensitization	

No information available Sensitization

(e) germ cell mutagenicity; Category 2

(f) carcinogenicity; Category 1B

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	Australia	New Zealand	New South Wales	Western Australia	IARC	EU	UK	Germany
Formaldehyde	Cat 1B	Confirmed carcinogen			Group 1	Carc Cat.	1B Cat 3	
(g) reproductive toxicity;		No data avail	able					
Component Test method			Tes	st species / Dur	ation	Study re	sult	

OECD Test Guideline 416 Rat / Inhalation 2 Generation NOAEC = 1.3 mg/l (air) Methyl alcohol 67-56-1 (7-10)

(h) STOT-single exposure; Category 3

Central nervous system (CNS) Results / Target organs

Optic nerve

No data available (i) STOT-repeated exposure;

No information available. **Target Organs** 

Based on available data, the classification criteria are not met (j) aspiration hazard;

delayed

Symptoms / effects, both acute and Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

# Section 12 - Ecological Information

**Ecotoxicity effects** 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
Isopropyl alcohol	LC50: = 9640 mg/L, 96h	13299 mg/L EC50 = 48	EC50: > 1000 mg/L, 72h	= 35390 mg/L EC50
	flow-through	h	(Desmodesmus	Photobacterium
	(Pimephales promelas)	9714 mg/L EC50 = 24 h	subspicatus)	phosphoreum 5 min

AUS-003320 Version 2 14-Jul-2023 Page 8/14

Methyl alcohol	LC50: > 1400000 µg/L, 96h (Lepomis macrochirus) LC50: = 11130 mg/L, 96h static (Pimephales promelas) LC50: = 10000000 µg/L, 96h (Daphnia)	EC50 > 10000 mg/L 24h	EC50: > 1000 mg/L, 96h (Desmodesmus subspicatus)	EC50 = 39000 mg/L 25
Wearly algorith	LC50 > 10000 mg/L 96h	2000 × 10000 mg/L 2-m		EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min
Ethylene glycol	LC50: = 41000 mg/L, 96h (Oncorhynchus mykiss) LC50: = 27540 mg/L, 96h static (Lepomis macrochirus) LC50: 14 - 18 mL/L, 96h static (Oncorhynchus mykiss) LC50: = 40761 mg/L, 96h static (Oncorhynchus mykiss) LC50: = 40761 mg/L, 96h static (Oncorhynchus mykiss) LC50: 40000 - 60000 mg/L, 96h static (Pimephales promelas) LC50: = 16000 mg/L, 96h static (Poecilia reticulata)	EC50: = 46300 mg/L, 48h (Daphnia magna)	EC50: 6500 - 13000 mg/L, 96h (Pseudokirchneriella subcapitata)	EC50 = 10000 mg/L 16 h EC50 = 620 mg/L 30 min EC50 = 620.0 mg/L 30 min
Formaldehyde	Leuciscus idus: LC50 = 15 mg/L 96h	EC50 = 20 mg/L 96h EC50 = 2 mg/L 48h	EC50 (72h) = 4.89 mg/L (Desmodesmus subspicatus)	
Sodium hydroxide	LC50: = 45.4 mg/L, 96h static (Oncorhynchus mykiss)	-	-	-
Sodium chloride	Pimephals prome: LC50: 7650 mg/L/96h	EC50: 1000 mg/L/48h		
Sodium acetate	LC50: > 100 mg/L, 96h semi-static (Danio rerio)	EC50: > 1000 mg/L, 48h (Daphnia magna)	-	= 7200 mg/L EC50 Pseudomonas putida 18 h

Persistence and Degradability

**Persistence** Persistence is unlikely, based on information available.

Component	Degradability
Methyl alcohol	DT50 ~ 17.2d
67-56-1 ( 7-10 )	>94% after 20d
Formaldehyde	Readily biodegradable (OECD guideline 301A, 301C and 301D)
50-00-0 ( 1-3 )	under aerobic and anaerobic conditions.

Degradation in sewage treatment plant asset water treatment plant asset water treatment plant bioaccumulative Potential Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Bioaccumulative Potential Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Isopropyl alcohol	0.05	No data available
Methyl alcohol	-0.74	<10 dimensionless
Ethylene glycol	-1.36	No data available
Formaldehyde	-0.35	No data available
Sodium acetate	-4.22	<10 dimensionless
FD&C red No. 40	-1.283	No data available

Mobility

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Will likely be mobile in the environment due to its volatility Disperses rapidly in

**Endocrine Disruptor Information** 

This product does not contain any known or suspected endocrine disruptors

AUS-003320 Version 2 14-Jul-2023 Page 9/14

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.

# Section 14 - Transport Information

### IMDG/IMO

UN-No UN1987

Proper Shipping Name ALCOHOLS, N.O.S.

Hazard Class 3
Packing Group III

ADG

UN-No UN1987

Proper Shipping Name ALCOHOLS, N.O.S.

Hazard Class 3
Packing Group III

Component	Hazchem Code
Isopropyl alcohol	1Z
67-63-0 ( 20-23 )	
Methyl alcohol	2WE
67-56-1 ( 7-10 )	
Formaldehyde	2X
50-00-0 ( 1-3 )	2W
Sodium hydroxide	2W
1310-73-2 ( <1 )	2R

## IATA

UN-No UN1987

Proper Shipping Name ALCOHOLS, N.O.S.

Hazard Class 3 Packing Group III

Environmental hazards No hazards identified

Special Precautions No special precautions required

Additional information None known

AUS-003320 Version 2 14-Jul-2023 Page 10 / 14

# 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
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
Ethylene glycol - 107-21-1	Schedule 5 listed - except its salts and derivatives;in preparations containing >=10 mg/kg of Denatonium benzoate as a bittering agent except: in paints or paint tinters, in toothpastes or mouthwashes containing >0.25% of Ethylene glycol, or in other preparations containing <=2.5% of Ethylene glycol
	Schedule 6 listed - except its salts and derivatives; except when included in Schedule 5, in paints or paint tinters, in toothpastes or mouthwashes containing >0.25% of Ethylene glycol, or in other preparations containing <=2.5% of Ethylene glycol  Schedule 10 listed
Formaldehyde - 50-00-0	Schedule 2 listed  Schedule 6 listed - except its derivatives;in preparations as free Formaldehyde except: a) for human therapeutic use, b) in oral hygiene preparations, c) in nail hardener cosmetic preparations containing >=5% of free Formaldehyde, d) in nail hardener cosmetic preparations containing <=0.2% of free Formaldehyde when labelled with the warning statement: PROTECT CUTICLES WITH GREASE OR OIL, e) in all other cosmetic preparations, or f) in other preparations containing <=0.2% of free Formaldehyde when labelled with the warning statement: CONTAINS FORMALDEHYDE Schedule 10 listed
Sodium hydroxide - 1310-73-2	Schedule 5 listed - except its salts and derivatives;in preparations being: solid preparations the pH of which in a 10 g/L aqueous solution is >11.5;liquid or semi-solid preparations the pH of which is >11.5 except in food additive preparations for domestic use  Schedule 6 listed - except its salts and derivatives;except: [a] when included in Schedule 5 or Schedule 10, [b] in preparations containing <=5% of Sodium hydroxide being: [i] solid preparations, the pH of which in a 10 g/L aqueous solution is <=11.5, or [ii] liquid or semi-solid preparations the pH of which is <=11.5  Schedule 10 listed
FD&C red No. 40 - 25956-17-6	Schedule 7 listed

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

Component	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Water - 7732-18-5	Present	-
Isopropyl alcohol - 67-63-0	Present	-
Methyl alcohol - 67-56-1	Present	-
Ethylene glycol - 107-21-1	Present	-
Formaldehyde - 50-00-0	Present	Specific information requirement: Obligations to provide information apply. You must tell us within 28 days if the circumstances of your importation or manufacture (introduction) are different to those in our assessment.
Sodium hydroxide - 1310-73-2	Present	-
Sodium chloride - 7647-14-5	Present	-
Sodium acetate - 127-09-3	Present	-
FD&C red No. 40 - 25956-17-6	Present	-

Australian - Illicit Drug Precursors/Reagents Substance List

AUS-003320 Version 2 14-Jul-2023 Page 11/14

Verify requirements related to using, handling and storing these substances. This product contains one or more 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

Component	Australian - Illicit Drug Precursors/Reagents Substance List	Chemicals of Security Concern
Formaldehyde - 50-00-0	Category 2	
Sodium hydroxide - 1310-73-2	Category 3	
Sodium acetate - 127-09-3	Category 3	

#### Legend

Category 2 - Chemicals and apparatus that require an End User Declaration when sold to non-account customers

Category 3 - Chemicals and apparatus that may be used in the illicit production of drugs. Purchases from this list should alert companies or organizations to seek further indicators of any suspicious orders or enquiries. No official reporting is required for items on this list unless considered warranted

## National pollutant inventory Subject to reporting requirements

Component	National pollutant inventory
Methyl alcohol - 67-56-1	10 tonne/yr. Threshold category 1
Ethylene glycol - 107-21-1	10 tonne/yr. Threshold category 1
Formaldehyde - 50-00-0	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 contains one or more substance(s) subject to Prohibition, Authorization or Restriction. Verify that requirements related to using, handling, and storing substances subject to prohibition, authorization or restriction are met.

Component	Australia	New South Wales	Western Australia	New Zealand
Formaldehyde - 50-00-0	Cat 1B			Confirmed carcinogen

## **International Inventories**

Component	AICS	NZIoC	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	<b>ENCS</b>	ISHL	IECSC	KECL
Water	Х	Х	231-791-2	-	Х	Х	-	Х	Х		Х	KE-35400
Isopropyl alcohol	Х	Х	200-661-7	-	Х	Х	-	Χ	Х	Х	Х	KE-29363
Methyl alcohol	X	X	200-659-6	-	X	Х	-	Χ	Χ	Х	Х	KE-23193
Ethylene glycol	X	X	203-473-3	-	X	Х	-	Χ	Χ	Х	Х	KE-13169
Formaldehyde	X	X	200-001-8	-	X	Х	-	Χ	Χ	Х	Х	KE-17074
Sodium hydroxide	X	X	215-185-5	1	X	Χ	-	Χ	Χ	Х	Х	KE-31487
Sodium chloride	X	X	231-598-3	-	X	Х	-	Χ	Χ	Х	Х	KE-31387
Sodium acetate	X	X	204-823-8	1	X	Χ	-	Χ	Χ	Х	Х	KE-00061
FD&C red No. 40	X	X	247-368-0	-	X	Х	-	Χ	-	Х	Х	KE-12348

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

AUS-003320 Version 2 14-Jul-2023 Page 12 / 14

### Basel convention on the control of transboundary movements of hazardous wastes and their dispoal

Take note that wastes may be subject to export, import, or transit controls pursuant to the Basel convention and/or local regulations implementing the Basel convention.

	Component	Basel Convention (Hazardous Waste)	Australian Hazardous Waste Act - Categories of Wastes to Be Controlled
	Isopropyl alcohol - 67-63-0	Annex I - Y42	Y42 except Halogenated solvents
Ī	Sodium hydroxide - 1310-73-2	Annex I - Y35	Y35 solid or solution

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
Water	7732-18-5	Listed	Not applicable	Not applicable	Not applicable
Isopropyl alcohol	67-63-0	Listed	Not applicable	Not applicable	Not applicable
Methyl alcohol	67-56-1	Listed	Not applicable	500 tonne	5000 tonne
Ethylene glycol	107-21-1	Listed	Not applicable	Not applicable	Not applicable
Formaldehyde	50-00-0	Listed	Not applicable	5 tonne	50 tonne
Monosodium phosphate	1333-80-8	Not applicable	Not applicable	Not applicable	Not applicable
Sodium hydroxide	1310-73-2	Listed	Not applicable	Not applicable	Not applicable
Sodium chloride	7647-14-5	Listed	Not applicable	Not applicable	Not applicable
Sodium acetate	127-09-3	Listed	Not applicable	Not applicable	Not applicable
FD&C red No. 40	25956-17-6	Not applicable	Not applicable	Not applicable	Not applicable

## 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)
Isopropyl alcohol	-	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)	-
Formaldehyde	-	Use restricted. See item 72. (see link for restriction details) Use restricted. See item 28. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	-
Sodium hydroxide	-	Use restricted. See item 75. (see link for restriction details)	-
FD&C red No. 40	-	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

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

AUS-003320 Version 2 14-Jul-2023 Page 13 / 14

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)

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

Health Hazards

Environmental hazards

On basis of test data
Calculation method
Calculation method

**Training Advice** 

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

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 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-003320 Version 2 14-Jul-2023 Page 14 / 14