

# **Chemeco Rinse Aid**

Chemwatch Hazard Alert Code: 2

Issue Date: **27/06/2017**Print Date: **05/03/2018**S.GHS.AUS.EN

Chemwatch: **24-8913** 

Safety Data Sheet according to WHS and ADG requirements

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

Version No: 2.1.1.1

Product name	Chemeco Rinse Aid
Synonyms	Not Available
Other means of identification	Not Available

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Rinse additive for dishwashing machines.

### Details of the supplier of the safety data sheet

Registered company name	Chemeco (Aust)
Address	17 Yale Drive Epping VIC 3076
Telephone	+61 3 9408 8699
Fax	+61 3 9408 8399
Website	www.chemeco.com.au
Email	info@chemeco.com.au

# Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

# **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

# NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
Classification	Not Applicable
Label elements	
GHS label elements	Not Applicable
SIGNAL WORD	NOT APPLICABLE

### Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

Chemwatch: 24-8913 Version No: 2.1.1.1

Page 2 of 7 **Chemeco Rinse Aid**  Issue Date: 27/06/2017 Print Date: 05/03/2018

# **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
67-63-0	<10	isopropanol
Not Available	<10	surfactant
Not Available	<10	blue dye
7732-18-5	>60	water

# **SECTION 4 FIRST AID MEASURES**

# Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Wash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs:  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 FIREFIGHTING MEASURES**

### **Extinguishing media**

- ▶ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

### Special hazards arising from the substrate or mixture

Fire Incompatibility None known

# Advice for firefighters

Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves in the event of a fire.
   Prevent, by any means available, spillage from entering drains or water courses.
- Use fire fighting procedures suitable for surrounding area.
- Fire/Explosion Hazard
- Non combustible.
- Not considered to be a significant fire risk.
- Expansion or decomposition on heating may lead to violent rupture of containers
- Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).

Decomposes on heating and produces toxic fumes of:, carbon dioxide (CO2)

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

# Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

**Minor Spills** 

# Slippery when spilt

- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact with the substance, by using protective equipment.
- ▶ Contain and absorb spill with sand, earth, inert material or vermiculite

Chemwatch: 24-8913 Page 3 of 7

### **Chemeco Rinse Aid**

Issue Date: 27/06/2017 Print Date: 05/03/2018

**Major Spills** 

Slippery when spilt.

- Minor hazard.
- · Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard.
- Control personal contact with the substance, by using protective equipment as required.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 HANDLING AND STORAGE**

### Precautions for safe handling

Version No: 2.1.1.1

Safe handling

- Limit all unnecessary personal contact.
   Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Avoid contact with incompatible materials.

Other information

- Store in original containers. Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.

### Conditions for safe storage, including any incompatibilities

Suitable container

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- ▶ Check all containers are clearly labelled and free from leaks

Storage incompatibility None known

# **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Control parameters**

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	isopropanol	Isopropyl alcohol	983 mg/m3 / 400 ppm	1230 mg/m3 / 500 ppm	Not Available	Not Available

### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
isopropanol	Isopropyl alcohol	Isopropyl alcohol 400 ppm		12000 ppm
Ingredient	Original IDLH		Revised IDLH	
isopropanol	12,000 ppm		2,000 [LEL] ppm	
surfactant	Not Available		Not Available	
blue dye	Not Available		Not Available	
water	Not Available		Not Available	

### **Exposure controls**

# Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

# Personal protection









### Eve and face protection

- Safety glasses with side shields; or as required,
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing

Lye and tace protection	the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.
Skin protection	See Hand protection below
Hands/feet protection	Wear protective gloves, e.g. PVC.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities.  OTHERWISE:  Overalls.  Barrier cream.  Eyewash unit.
Thermal hazards	Not Available

Version No: 2.1.1.1

### Chemeco Rinse Aid

Issue Date: 27/06/2017 Print Date: 05/03/2018

### Recommended material(s)

# GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

NV Chemicals Rinse Aid

Material	СРІ
NEOPRENE	Α
NATURAL RUBBER	С

- \* CPI Chemwatch Performance Index
- A: Best Selection
- B: Satisfactory; may degrade after 4 hours continuous immersion
- C: Poor to Dangerous Choice for other than short term immersion

**NOTE**: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

# Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	Air-line*	A-2	A-PAPR-2 ^
up to 20 x ES	-	A-3	-
20+ x ES	-	Air-line**	-

- \* Continuous-flow; \*\* Continuous-flow or positive pressure demand
- ^ Full-face

 $A(All\ classes) = Organic\ vapours,\ B\ AUS\ or\ B1 = Acid\ gasses,\ B2 = Acid\ gas\ or\ hydrogen\ cyanide(HCN),\ B3 = Acid\ gas\ or\ hydrogen\ cyanide(HCN),\ E = Sulfur\ dioxide(SO2),\ G = Agricultural\ chemicals,\ K = Ammonia(NH3),\ Hg = Mercury,\ NO = Oxides\ of\ nitrogen,\ MB = Methyl\ bromide,\ AX = Low\ boiling\ point\ organic\ compounds(below\ 65\ degC)$ 

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

	- Indian on sacro physical and chemical proportion					
Appearance	Clear blue liquid; mixes with water.					
Physical state	Liquid	Relative density (Water = 1)	1.03			
Odour	Not Available	Partition coefficient n-octanol / water	Not Available			
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available			
pH (as supplied)	~7	Decomposition temperature	Not Available			
Melting point / freezing point (°C)	0	Viscosity (cSt)	Not Available			
Initial boiling point and boiling range (°C)	90	Molecular weight (g/mol)	Not Applicable			
Flash point (°C)	Not Available	Taste	Not Available			
Evaporation rate	Not Available	Explosive properties	Not Available			
Flammability	Not Available	Oxidising properties	Not Available			
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available			
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available			
Vapour pressure (kPa)	Not Available	Gas group	Not Available			
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available			
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available			

# **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7	
Chemical stability	oduct is considered stable and hazardous polymerisation will not occur.	
Possibility of hazardous reactions	See section 7	
Conditions to avoid	See section 7	
Incompatible materials	See section 7	
Hazardous decomposition products	See section 5	

### **SECTION 11 TOXICOLOGICAL INFORMATION**

### Information on toxicological effects

Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.  Overexposure to non-ring alcohols causes nervous system symptoms. These include headache, muscle weakness and inco-ordination, giddiness, confusion, delirium and coma.

Page **5** of **7** Chemwatch: 24-8913 Version No: 2.1.1.1

# **Chemeco Rinse Aid**

Issue Date: 27/06/2017 Print Date: 05/03/2018

Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models).  Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	There is some evidence to suggest that this material can cause eye irritation and damage in some persons.		
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.		
NV Chemicals Rinse Aid	TOXICITY	RITATION	
NV Chemicals Rinse Ald	Not Available No	t Available	
	TOXICITY	RITATION	
		e (rabbit): 10 mg - moderate	
isopropanol	Inhalation (rat) LC50: 72.6 mg/L/4hr <sup>[2]</sup>	e (rabbit): 100 mg - SEVERE	
	Oral (rat) LD50: 5000 mg/kg <sup>[2]</sup>	e (rabbit): 100mg/24hr-moderate	
	Sk	n (rabbit): 500 mg - mild	
	TOXICITY	RITATION	
water	Oral (rat) LD50: >90000 mg/kg [2] No	t Available	
	Vi		
Legend:	Nalue obtained from Europe ECHA Registered Substances - Acute toxicity specified data extracted from RTECS - Register of Toxic Effect of chemical Su		
Legend:	Nalue obtained from Europe ECHA Registered Substances - Acute toxicity:	in. Prolonged high dose exposure may also produce depression n. It can be absorbed from the skin or when inhaled.	
-	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity is specified data extracted from RTECS - Register of Toxic Effect of chemical Substances - Acute toxicity is specified data extracted from RTECS - Register of Toxic Effect of chemical Substance Isopropanol is irritating to the eyes, nose and throat but generally not to the sk of the central nervous system and drowsiness. Few have reported skin irritation. The material may cause skin irritation after prolonged or repeated exposure an production of vesicles, scaling and thickening of the skin.  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.	in. Prolonged high dose exposure may also produce depression n. It can be absorbed from the skin or when inhaled.	
ISOPROPANOL	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity is specified data extracted from RTECS - Register of Toxic Effect of chemical Substances is irritating to the eyes, nose and throat but generally not to the sk of the central nervous system and drowsiness. Few have reported skin irritation. The material may cause skin irritation after prolonged or repeated exposure an production of vesicles, scaling and thickening of the skin.  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in animal testing.  No significant acute toxicological data identified in literature search.	in. Prolonged high dose exposure may also produce depression n. It can be absorbed from the skin or when inhaled.	
ISOPROPANOL	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity is specified data extracted from RTECS - Register of Toxic Effect of chemical Substances.  Isopropanol is irritating to the eyes, nose and throat but generally not to the sk of the central nervous system and drowsiness. Few have reported skin irritation. The material may cause skin irritation after prolonged or repeated exposure at production of vesicles, scaling and thickening of the skin.  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in animal testing.  No significant acute toxicological data identified in literature search.	in. Prolonged high dose exposure may also produce depression n. It can be absorbed from the skin or when inhaled. In may produce on contact skin redness, swelling, the	
ISOPROPANOL  WATER  Acute Toxicity	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity is specified data extracted from RTECS - Register of Toxic Effect of chemical Substances.  Isopropanol is irritating to the eyes, nose and throat but generally not to the sk of the central nervous system and drowsiness. Few have reported skin irritation. The material may cause skin irritation after prolonged or repeated exposure at production of vesicles, scaling and thickening of the skin.  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in animal testing.  No significant acute toxicological data identified in literature search.	in. Prolonged high dose exposure may also produce depression n. It can be absorbed from the skin or when inhaled. and may produce on contact skin redness, swelling, the	
ISOPROPANOL  WATER  Acute Toxicity  Skin Irritation/Corrosion  Serious Eye	Value obtained from Europe ECHA Registered Substances - Acute toxicity specified data extracted from RTECS - Register of Toxic Effect of chemical Substances - Acute toxicity is specified data extracted from RTECS - Register of Toxic Effect of chemical Substance is circle in the eyes, nose and throat but generally not to the sk of the central nervous system and drowsiness. Few have reported skin irritation. The material may cause skin irritation after prolonged or repeated exposure an production of vesicles, scaling and thickening of the skin.  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in animal testing.  No significant acute toxicological data identified in literature search.  Carcin	in. Prolonged high dose exposure may also produce depression n. It can be absorbed from the skin or when inhaled. In any produce on contact skin redness, swelling, the  Indicate the second of the swelling of the second of the swelling of the swelling of the swelling of the second of the swelling of th	

Legend: X – Data available but does not fill the criteria for classification
v – Data required to make classification available

Data Not Available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

# Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
isopropanol	EC50	384	Crustacea	42.389mg/L	3
isopropanol	EC50	96	Algae or other aquatic plants	993.232mg/L	3
isopropanol	LC50	96	Fish	183.844mg/L	3
isopropanol	NOEC	5760	Fish	0.02mg/L	4
isopropanol	EC50	48	Crustacea	12500mg/L	5
water	EC50	384	Crustacea	199.179mg/L	3
water	EC50	96	Algae or other aquatic plants	8768.874mg/L	3
water	LC50	96	Fish	897.520mg/L	3
Legend:	Suite V3.12 - Aqua	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data			

DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
isopropanol	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)
water	LOW	LOW

Chemwatch: 24-8913 Page 6 of 7 Issue Date: 27/06/2017 Version No: 2.1.1.1 Print Date: 05/03/2018

### **Chemeco Rinse Aid**

Ingredient	Bioaccumulation	
isopropanol	LOW (LogKOW = 0.05)	
water	LOW (LogKOW = -1.38)	

### Mobility in soil

Ingredient	Mobility
isopropanol	HIGH (KOC = 1.06)
water	LOW (KOC = 14.3)

### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Product / Packaging disposal

- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers.

### **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

# **SECTION 15 REGULATORY INFORMATION**

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

# ISOPROPANOL(67-63-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards Australia Inventory of Chemical Substances (AICS) Australia Hazardous Substances Information System - Consolidated Lists International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

# WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Υ
Canada - NDSL	N (water; isopropanol)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (water)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

### **SECTION 16 OTHER INFORMATION**

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

Chemwatch: 24-8913 Page 7 of 7 Issue Date: 27/06/2017 Version No: 2.1.1.1 Print Date: 05/03/2018

# **Chemeco Rinse Aid**

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index