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ADDENDUM TO SAFETY DATA SHEET (SDS)

This SDS is delivered in an internationally recognised GHS format. This addendum provides information specifically for this product according to the Australian *Model Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals,* September 2015. This addendum should not be detached but rather read in conjunction with the SDS which follows. It remains integral to the attached SDS.

IDENTIFICATION					
Product Name	METHANOL	-			
Manufacturer	RCI Labscar	Limited			
Product Code/s		AH1116, AH1117, AH1118, AR1115, CG1115, CG1115H,EP1115, GP1115, IR1115, LC1115, LC1224, LM1115, PC1115, PT1115, RP1115, SG1115, SM1115, XP1115, VL1115.			
SDS Revision No:	N/A	Date of Issue:	01/11/2014	Page 00 of 08	

SUPPLIER CONTACT DETAILS				
Company	Chem-Supply Pty Ltd			
Australian Address	38 – 50 Bedford Street, Gilln	nan SA 5	013	
Telephone (08) 8440 2000 Fax (08) 8440 2001				
Emergency - Australia (08) 8440 2000 (8:30 am to 5:00 pm Monday to Friday)				

MODEL WORK HEALTH AND SAFETY REGULATIONS			
GHS Hazard Class and Category	Flammable liquids (Category 2); Acute toxicity - Oral (Category 3); Acute toxicity – Dermal (Category 3); Acute toxicity – Inhalation (Category 3); Specific target organ toxicity – Single exposure - (Category 1) - Eyes.		
Signal Word	DANGER		
Hazard Statements	H225, H301, H311, H331, H370		
Precautionary Statements	See section 2.2		
Australian Exposure Standard/s	TWA: 200 ppm (262 mg/m ³), STEL: 250 ppm (328 mg/m ³)		

AUSTRALIAN DANGEROUS GOODS CODE INFORMATION				
UN Number	1230	DG Class	3	
Packing Group	11	Sub. Risk/s	6.1	
Proper Shipping Name	roper Shipping Name METHANOL			
Hazchem Code •2WE				

	ADDITIONAL REGULATORY I	NFORMATION	
	Poisons Schedule (SUSMP)	S6	
	AICS	Listed on the Australian Inventory of Chemical Substances	
7	SISO 0001-2008 Cortified	38-50 Bedford Street Giliman	www.chomsupply.com

AS/NZS ISO 9001:2008 Certified



SAFETY DATA SHEET

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Revision Date Nov 01, 2014

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

 Product name
 METHANOL

 CAS-No.
 67-56-1

 Product code
 AH1116, AH1117, AH1118, AR1115, CG1115, CG1115H, EP1115, GP1115, IR1115, LC1124, LM1115, PC1115, PT1115, RP1115, SG1115, SM1115, XP1115, VL1115

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses Chemical for analysis and production.

1.3 Details of the supplier of the safety data sheet

Company	RCI LABSCAN LIMITED.
	24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand
Telephone number	(662) 613-7911-4
Fax number	(662) 613-7915

(662) 613-7911-4

1.4 Emergency Telephone Number

Emergency phone

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Flammable liquids (Category 2), H225 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Dermal (Category 3), H311 Acute toxicity, Inhalation (Category 3), H331 Specific target organ toxicity - single exposure (Category 1), Eyes, H370 For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

F	Highly flammable	R11
Т	Toxic	R23/24/25, R39/23/24/25
For the fu	ull text of the R-phrases mentioned in thi	s Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)	
H225	Highly flammable liquid and vapour.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H370	Causes damage to organs (eyes).

Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe vapours.
P264	Wash hand 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.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
	Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P361	Remove/Take off immediately all contaminated clothing.
P370 + P378	In case of fire: Use carbon dioxide, dry chemical or foam for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
	No

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	Methy	/I alcohol, Carbinol, W	/ood alcohol.		
CAS-No	EC-No	EC-Index-No	Formula	Molecular Weight	Weight %
67-56-1	200-659-6	603-001-00-X	CH₃OH	32.04 g/mol	>99

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice Inhalation	Show this safety data sheet to the doctor in attendance. Move to fresh air in case of accidental inhalation of vapors. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus.
Skin contact	Remove contaminated clothing and wash affected skin with soap and water. If signs of poisoning appear, treat as for inhalation. Wash contaminated clothing before reuse. Contaminated combustible material, e.g. clothing ignites more readily and burns fiercely.
Eye contact	If the substance has got into the eyes, immediately wash out with plenty of water at least 15 minutes. Obtain medical attention.
Ingestion	Rinse mouth. Do not induce vomiting. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus. Obtain medical attention. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and section 11

4.3 Indication of any immediate medical attention and special treatment needed

After swallowing, make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage). Call in physician, mentioning methanol ingestion. If breathing stops. Mouth to mouth respiration or mechanical ventilation.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguish with carbon dioxide, dry chemical, foam or water spray. In the event of fire, cool tanks with water spray.

5.2 Special hazards arising from the substance or mixture

Vapors may form explosive mixture with air. Flash back possible over considerable distance.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

5.4 Further information

Standard procedure for chemical fires. Take measures to prevent electrostatic charging. Prevent firefighting water from entering surface water or groundwater.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Do not breathe vapors or spray mist. Remove all sources of ignition. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Contain or absorb leaking liquid with sand or earth, consults an expert. Prevent liquid entering sewers, basements and workpits. If substance has entered a water course or sewer or contaminated soil, advise police.

6.3 Methods and materials for containment and cleaning up

Spillage: May react with combustible substances creating fire or explosion hazard and formation of toxic fumes. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Soak up with inert absorbent material (e.g. sand, silica gel). Prevent liquid entering sewers, basements and workpits; vapor may create explosive atmosphere. Transfer to covered steel drums. Dispose of promptly.

6.4 Reference to other sections

For disposal see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep container tightly closed. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Do not empty into drains.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed at room temperature in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep out of direct sunlight and away from incompatible materials. Store in original container. Electrical equipment should be protected to the appropriate standard.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL)					
Application Area	Health Effects	Exposure	Value		
Worker	Acute Local effects	Inhalation	260 mg/m ³		
Worker	Acute Systemic effects	Inhalation	260 mg/m ³		
Worker	Acute Systemic effects	Skin contact	40 mg/kg Body weight		
Worker	Long-term Local effects	Inhalation	260 mg/m ³		
Worker	Long-term Systemic effects	Inhalation	260 mg/m ³		
Worker	Long-term Systemic effects	Skin contact	40 mg/kg Body weight		
Consumer	Acute Local effects	Inhalation	50 mg/m³		
Consumer	Acute Systemic effects	Ingestion	8 mg/kg Body weight		
Consumer	Acute Systemic effects	Inhalation	50 mg/m³		
Consumer	Acute Systemic effects	Skin contact	8 mg/kg Body weight		
Consumer	Long-term Local effects	Inhalation	50 mg/m³		
Consumer	Long-term Systemic effects	Ingestion	8 mg/kg Body weight		
Consumer	Long-term Systemic effects	Inhalation	50 mg/m³		
Consumer	Long-term Systemic effects	Skin contact	8 mg/kg Body weight		

Predicted No Effect Concentration (PNEC)

Compartment	Value
Fresh water	154 mg/l
Fresh water sediment	570.4 mg/kg
Marine water	15.4 mg/l
Sewage treatment plant	100 mg/l
Soil	23.5 mg/kg

8.2 Exposure controls

Appropriate engineering controls

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Ventilation hoods and fans required when working with organic solvents or in hot melt applications.

Individual protection measures (Personal protective equipment, PPE) Eye/face protection

Goggles giving complete protection to eyes.

Skin protection

Chemical resistant apron / flame retardant antistatic protective clothing, heavy duty work shoes. Handle with gloves

- Full contact wears gloves from butyl rubber material.
- Splash contact wears gloves from viton material.

The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Required when vapor/aerosols are generated filter AX (EN 371).

Environmental exposure controls

Prevent liquid entering sewers, basements and workpits.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: From	Liquid
: Color	Colorless
Odor	Characteristic
Odor Threshold	Not Available
рН	Not Available
Melting point/range	-98°C
Boiling point/range	64.5°C
Flash point	11 °C (closed cup)
Evaporation rate	Not Available
Flammability (solid, gas)	Not Available
Explosion limits: lower	5.5 %(V)
upper	36.5 %(V)
Vapor Pressure	128 hPa at 20⁰C
Relative vapor density	1.1
Density	0.790 g/ml at 20°C
Water solubility	Soluble at 20°C
Partition coefficient (n-octanol/water)	log Pow: -0.77
Auto-Ignition temperature	455 °C
Decomposition Temperature	Not Available
Viscosity	0.597 mPa.s at 20°C
Explosive properties	Not Explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

SECTION 10: Stability and reactivity

10.1 Reactivity

Hygroscopic. Highly flammable. Explosible with air in a vaporous/gaseous state.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Risk of explosion in contact with strong oxidizing agents, alkali metals, nitric acid, sulfuric acid, nitric oxides, hydrogen peroxide, barium perchlorate, lead chlorate, lead perchlorate, chromosulphuric acid, dichloro hexoxide, magnesium powder, sodium hypochloride, perchloric acid, permanganic acid and zinc diethyl. The substance can react dangerously with halogens, oxidizing agents, reducing agents, acids, acetyl bromide, alkylaluminium solutions, beryllium hydride, chloroform/lye, chromium(VI)-oxide, cyanuric chloride, alkaline-earth metals, magnesium splinters, phosphorus trioxide, Raney- nickel/hydrogenation and acid anhydrides.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Acid halides, alkali metals, alkaline earth, metals, oxidizing agent, nitrogen oxides, reducing agents, acids. Unsuitable working materials: Various plastics, aluminium, zinc alloys.

10.6 Hazardous decomposition products

Carbon monoxides, Carbon dioxides, (Hazardous decomposition products from under fire condition).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

 LD_{50} (oral, rat): 5628 mg/kg LD_{LO} (oral, human): 143 mg/kg LC_{50} (inhalation, rat): 85.26 mg/l/4 h

Acute oral toxicity

Absorption: Symptoms nausea, vomiting, headache, dizziness, inebriation, impaired vision, blindness (Irreversible damage of the optical nerve).

Acute inhalation toxicity

Irritation symptoms in the respiratory tract.

Skin corrosion/irritation

Slow absorption.

Serious eye damage/eye irritation

Slight irritations, mucosal irritations.

Respiratory or skin sensitization Sensitisation test: guinea pig is negative.

Germ cell mutagenicity

Bacterial mutagenicity; Salmonella typhimurium is negative.

Carcinogenicity

Noncarcinogenic in animal experiments.

Reproductive toxicity

Not Available

Specific target organ toxicity (STOT) - single exposure Causes damage to organs (Eyes).

Specific target organ toxicity (STOT) - repeated exposure Not Available

Aspiration hazard Not Available

Further information

Systemic effects: nausea, vomiting, headache, dizziness, inebriation, impaired vision, blindness acidosis, drop in blood pressure, agitation, spasms, narcosis and coma.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	L
Toxicity to daphnia	E
and other aquatic invertebrates	
Toxicity to algae	- 10
Toxicity to bacteria	E

LC₅₀ L. macrochirus: 15400 mg/l/96h EC₅₀ Daphnia magna: >10000 mg/l/48h IC₅ Sc.quadricauda: 8000 mg/l/8d

 E_5 Sc.quadricauda: 8000 mg/l/8d EC₅ Ps. Putida: 6600 mg/l/16d

12.2 Persistence and degradability

Biodegradability	99%/30 d, Readil	y biodegradable.
Biochemical Oxygen	Demand (BOD)	600-1120 mg/g
Chemical Oxygen De	mand (COD)	1420 mg/g
Theoretical oxygen d	emand	1,500 mg/g

12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water)

log Pow: -0.77 No bioaccumulation is to be expected (log P o/w <1)

12.4 Mobility in soil

Not Available

12.5 Other adverse effects

Do not allow to enter waters, waste water or soil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

Contaminated packaging

Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

SECTION 14: Transport information

Land Transport (ADR/RID) UN Number UN proper shipping name Transport hazard class(es) Packaging group Environmental hazards Special precautions for user	1230 METHANOL 3 (6.1) II No Yes
Sea transport (IMDG) UN Number UN proper shipping name Transport hazard class(es) Packaging group Marine pollutant Special precautions for user EmS	1230 METHANOL 3 (6.1) II No Yes F-E S-D
Air transport (IATA) UN Number UN proper shipping name Transport hazard class(es) Packaging group	1230 METHANOL 3 (6.1) II

Environmental hazards	No
Special precautions for user	No

River transport (AND/ADNR)

(Not examined)

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

15.1 Safety, health and environmental regulations/legislation specific for the substance or Mixture Not Available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H225	Highly	flammable liquid and vapour.
H301 + H31	1 + H331	Toxic if swallowed, in contact with skin or if inhaled
H370	Cause	s damage to organs.

Full text of R-phrases referred to under sections 2 and 3

F	Highly flammable
Т	Toxic
R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with
	skin and if swallowed.

Recommended restrictions

Take notice of labels and safety data sheets for the working. Chemicals Take necessary action to avoid static electricity discharge.

Reference

Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008. Transportation information according to Recommendations on the Transport of Dangerous Goods, Model Regulations. Twelfth revised edition. United Nations. Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany,

Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany, Source: IFA for Databases on hazardous substances (GESTIS).

Further information

Contact to RCI Labscan Limited.

Revision Date

01/11/2014

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 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.