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Infosafe No™ RE-ISSUED by KINETIKP 1CH4F Issue Date: July 2016

Product Name: **METHANOL** 

Classified as hazardous

#### 1. Identification

**GHS Product** 

METHANOL

Identifier

**Address** 

**Company Name** 

Kinetik Pty Ltd (ABN 53 605 811 532)

Unit 10, 12 - 16 Robart Court, Narangba Queensland 4506 Australia

Telephone/Fax Tel: 07 3203 0401

Number

Fax: 07 3203 0421

Recommended use of the chemical and restrictions on use

Denaturant, production of paints, cements, inks. plastics, pharmaceuticals and laboratory reagent. Methanol is used mainly in chemical synthesis; predominantly in the production of formaldehyde, methyl t-butyl ether, acetic acid, dimethyl terephthalate and methyl methacrylate. It is also used as a feedstock for other organic compounds, such as dimethyl ether, methylamines, methyl halides and glycol methyl ethers; as a solvent; as antifreeze; to protect natural gas pipelines against the formation of gas hydrates at low temperatures; as an absorption agent in gas scrubbers; in drilling mud in oil fields; in refrigeration systems; as an ingredient in products such as shellacs, paints, varnishes, paint thinners and automotive windshield washer fluids, and as a denaturant for ethanol. It is also used in the production of gasoline (MTG process in New Zealand) and, on a small scale, as a motor fuel. Methanol occurs naturally in blood, urine, saliva and expired air, and is present in fresh fruit and vegetables, fruit juices, fermented beverages and diet foods.

**Product Code Other Names** Name

Methyl alcohol, Hydroxymethane, Carbinol, Wood alcohol

**METHANOL** 505-005

EMERGENCY CONTACT NUMBER: +61 07 3203 0401 Other Information

Business hours: 8:30am to 5:00pm, Monday to Friday.

Kinetik Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Kinetik Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Kinetik Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

#### 2. Hazard Identification

GHS classification Acute Toxicity - Dermal: Category 3

of the

(s)

Flammable Liquids: Category 2 Acute Toxicity - Inhalation: Category 3 Acute Toxicity - Oral: Category 3

Specific target organ toxicity - Single Exposure Category 1, Eyes

Signal Word (s) **DANGER** 

**Hazard Statement** 

substance/mixture

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs, eyes.

Pictogram (s) Flame, Health hazard, Skull and crossbones







**Precautionary** statement -Prevention

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.





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P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash 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.

**Precautionary** statement -Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P330 Rinse mouth.

Skin

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P312 Call a POISON CENTER or doctor/physician if you feel unwell. P361 Remove/Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

Inhaled

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P311 Call a POISON CENTER or doctor/physician.

P370+P378 In case of fire: Use foam, dry chemical, carbon dioaxide or water spray for extinction. P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

**Precautionary** statement - Storage

P405 Store locked up.

**Precautionary** statement -**Disposal** 

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

### 3. Composition/information on ingredients

Chemical Liquid

Characterization

Ingredients <u>Name</u> CAS **Proportion Hazard Symbol Risk Phrase** 

> Methyl Alcohol 67-56-1 100 %

### 4. First-aid measures

Inhalation If inhaled, remove from contaminated area to fresh air immediately, avoid becoming a casualty. Make

> patient comfortable, keep warm and at rest until fully recovered. If breathing is difficult (or develops a bluish skin discolouration), supply oxygen by a qualified person. Apply artificial respiration with a respiratory medical device if not breathing. Do not use mouth to mouth resuscitation. Immediately

medical attention is required.

Rinse mouth thoroughly with water immediately. DO NOT INDUCE VOMITING. Seek immediate medical Ingestion

Wash affected areas with copious quantities of water and soap. Remove contaminated clothing and Skin

wash before re-use. If rapid recovery does not occur, obtain medical attention

If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes Eye contact

holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek

medical attention.

**First Aid Facilities** Maintain eyewash fountain and safety shower in work area.

**Advice to Doctor** Effects may be delayed. Treat symptomatically based on judgement of doctor and individual reactions of

The severity of outcome following methanol ingestion may be more related to the time between ingestion and treatment, rather than the amount ingested. Therefore, there is a need for rapid treatment of any ingestion exposure. Ethanol (contained in alcoholic beverages) can slow the metabolism of methanol,

thus reducing the potential for harmful effects.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764

766) or a doctor.

#### 5. Fire-fighting measures

Hazards from Combustion **Products** 

Carbon dioxide, carbon monoxide, formaldehyde and other toxic, irritating chemicals.



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Caution: Use of water spray when fighting fire may be inefficient. **Specific Methods** 

> Small fire: Use foam, dry chemical, CO2 or water spray. Large fire: Use foam, fog or water spray - Do not use water jets.

If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of

water until well after fire is out. Avoid getting water inside containers.

Specific hazards arising from the chemical

HIGHLY FLAMMABLE: These liquids have a low flashpoint - Will be easily ignited by heat, sparks or flame. Vapours will form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Most vapours are heavier than air and will collect in low or confined areas (drains, basements, tanks). Many liquids are lighter than water. Containers may explode when heated. Fire will produce irritating, poisonous and/or corrosive gases. Vapours from runoff may create explosion hazard.

**Hazchem Code** 

Precautions in

Wear SCBA and fully-encapsulating, gas-tight suit when handling these substances. Structural

connection with Fire firefighter's uniform is NOT effective for these materials.

#### 6. Accidental release measures

Spills & Disposal

ELIMINATE all ignition sources (no smoking, flares, sparks or flame) within at least 50m - All equipment used when handling the product must be earthed. Do not touch or walk through spilled material. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Vapour-suppressing foam may be used to control vapours - Water spray may be used to knock down or divert vapour clouds. Absorb with earth, sand or other non-combustible material. Use clean, non-sparking tools to collect absorbed material and place it into loosely-covered metal or plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

Personal

Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing.

**Precautions** 

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

#### 7. Handling and storage

Handling

Precautions for Safe Avoid contact with eyes. Avoid contact with skin. Avoid breathing dust (or) vapour (or) spray mist. Keep locked up. Keep containers tightly sealed. Protect against physical damage. Avoid use in confined spaces. Ensure good ventilation/exhaustion at the workplace. Work under hood. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid prolonged or repeated exposure. Do not ingest. If ingested, seek medical advice immediately and show the container or the label. Wear suitable protective clothing. Safety glasses. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Keep away from heat and ignition sources - Do not smoke. Take precautions against static discharge. All electrical equipment must be flameproofed. Fumes can combine with air to form an explosive mixture. Avoid generation of vapours/aerosols. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapours, liquid); observe all warnings and precautions listed for the product. Do Not attempt to clean empty containers since residue is difficult to remove. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or death. Do not expose to temperatures above 60 °C.

Conditions for safe storage, including any incompatabilities

Store in a locked cabinet or with access restricted to technical experts or their assistants. Store small containers in suitable flammable liquid storage cabinets when not in use. Larger drums (200L) must be kept in purpose-built stores. Outside or detached storage is preferred. Store in well-sealed, dry containers, in a cool, well-ventilated location, away from any area where the fire hazard may be acute and protected from direct sunlight. Keep away from heat, sparks, open flames and all possible sources of ignition. Protect against physical damage. Separate from incompatibles. Do not store together with oxidizing and acidic materials. Aluminium, magnesium powder. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapours, liquid); observe all warnings and precautions listed for the product. Do Not attempt to clean empty containers since residue is difficult to remove. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or death. Methanol is not corrosive to most metals. Admiralty brass, high silicon iron, naval bronze, nickel-resist and silicon copper have excellent corrosion resistance (less than 2 mm (50.8 µm) penetration/year), while carbon steel, types 304/347, 316 and 400 stainless steels, copper, brass, bronze, aluminium, nickel, lead, tantalum, titanium and zirconium have good resistance (less than 20 mm (505 µm)/year).

Corrosiveness





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Storage Regulations Refer Australian Standard AS 1940-2004 'The storage and handling of flammable and combustible

liquids'. Refer Australian Standard AS/NZS 4452:1997 'The storage and handling of toxic substances'.

Handling

60°C maximum.

**Temperatures** 

Storage Store at room temperature (15 to 25 °C recommended). 60 °C Maximum.

**Temperatures** 

Unsuitable Materials Some plastics (such as ABS and Isophthalic polyester, and epoxy at 90 °C), elastomers (such as Viton

A, hard and soft rubber, polyether-urethane and polyurethane), epoxy general purpose coatings,

aluminium, and zinc alloys.

8. Exposure controls/personal protection

Occupational Name **STEL TWA** 

exposure limit values

> mg/m3 mg/m3 ppm **Footnote** ppm

328 250 262 200 Methyl Alcohol

Other Exposure Information

A time weighted average (TWA) has been established for Methyl alcohol [Methanol] (Safe Work Australia) of 262 mg/m³, (200 ppm). The corresponding STEL level is 328 mg/m³, (250 ppm). The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes

and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne

concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day

working week. Note: Absorption through the skin may be a significant source of exposure.

**Appropriate** 

In industrial situations maintain the concentrations values below the TWA. This may be achieved by engineering controls process modification, use of local exhaust ventilation, capturing substances at the source, or other

methods.

Respiratory **Protection** 

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and

respirator type depends on exposure levels.

**Eye Protection** The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.

Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

**Hand Protection** Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and

maintenance

**Personal Protective Equipment** 

Final choice of personal protective equipment will depend on individual circumstances and/or according

to risk assessments undertaken.

**Footwear** Rubber boots.

Flame retardant protective clothing. Clean clothing or protective clothing should be worn, preferably with **Body Protection** 

an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection

Against Hazardous Chemicals.

**Hygiene Measures** Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other

protective equipment before storing or re-using.

9. Physical and chemical properties

**Form** 

Clear, colourless, mobile, volatile, highly polar liquid. **Appearance** 

Mild, characteristic alcohol odour, when pure. Crude methanol may have a repulsive, pungent odour. Odour

**Melting Point** -97.8 °C 64.7 °C **Boiling Point** 

Miscible in water in all proportions. Solubility in Water

Solubility in Organic Miscible with other alcohols, esters, ketones, ethers and most other organic solvents.

Solvents

**Specific Gravity** 0.791 at 20 °C

Not available. Methanol is both a weak acid and a weak base.

128 hPa (96 mm Hg) at 20 °C **Vapour Pressure** 





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**Vapour Density** 

(Air=1)

1.1 (air = 1)

**Evaporation Rate** 

4.1 (n-butyl acetate = 1)

**Odour Threshold** 

Reported values vary widely; 4.2-5960 ppm (geometric mean: 160 ppm) (detection); 53-8940 ppm

(geometric mean: 690 ppm) (recognition).

**Volatile Component** 

Partition Coefficient: Log P(oct) = -0.77

n-octanol/water

22.5 mN/m (22.5 dynes/cm) at 20 °C **Surface Tension** 

12 °C (closed cup) **Flash Point** 

HIGHLY FLAMMABLE. Keep away from heat, sparks or naked flames. Use flameproof equipment and **Flammability** 

fittings to prevent flammability risk. Electrically link and ground metal containers for transfer of the product to prevent accumulation of static electricity. Ensure adequate ventilation to prevent an explosive

vapour-air mixture. Vapours will travel considerable distances to sources of ignition. Reported values vary: 385 °C; 455 °C; 464-470 °C

**Auto-Ignition Temperature** 

Flammable Limits -

5.5 vol%

Lower

Flammable Limits -

Upper

36.5 vol%

**Explosion Properties** 

Product is not explosive. However, can readily form explosive mixtures with air, at or above 11 °C over a wide concentration range, and may be ignited by a source of ignition of sufficient energy. Mixtures with strong oxidizing agents may react violently or explosively; increased risk of fire and explosion. Concentrated peroxide and methanol can be detonated by shock or heat. Mixtures with mineral acids may react vigorously or violently, with the evolution of heat. Mixtures with powdered metals can detonate, with more power than military explosives. Mixtures with alkali metals may react explosively due to the formation of hydrogen-air mixtures, unless air is excluded. Mixtures with acetyl bromide react violently, with the evolution of hydrogen bromide. Mixtures with perchloric acid or metal perchlorates may form shock-sensitive or explosive compounds. Mixtures with alkyaluminium solutions, beryllium hydride, cyanuric chloride, isocyanates or phosphorus (III) oxide (tetraphosphorus hexaoxide) may react violently with generation of heat. Mixtures with diethyl zinc react explosively, with ignition.

Molecular Weight

Kinematic Viscosity 0.804 mm<sup>2</sup>/s at 20 °C **Dynamic Viscosity** 0.61 mPa.s at 20 °C

**Other Information** Refractive index: 1.329 @ 20 °C

#### 10. Stability and reactivity

Normally stable. Decomposes on heating to produce carbon monoxide and formaldehyde. Hygroscopic **Chemical Stability** 

(absorbs moisture from the air).

**Conditions to Avoid** Heat, high temperatures, flames, static discharge, sparks and other ignition sources, confined spaces,

moisture and incompatibles.

Incompatible **Materials** 

Acids (mineral acids, such as sulfuric acid, or organic acids), acid anhydrides, acid halides, alkali metals (e.g. sodium or potassium), alkaline earth metals, metals (such as metallic powdered aluminium, powdered magnesium and zinc), reducing agents, some forms of plastics, rubber, and coatings, oxidizing agents (such as perchloric acid, metal perchlorates, salts of oxyhalogenic acids, bromine, chlorine, chromium trioxide, halogen oxides, nitrates, nitric acid, nitrogen oxides, nonmetallic oxides, chromosulfuric acid, sodium hypochlorite), hydrides, zinc diethyl, halogens. hydrogen peroxide, carbon tetrachloride and metals, acetyl bromide, dichloromethane, potassium tert-butoxide, alkylaluminium solutions, beryllium hydride, cyanuric chloride, isocyanates or phosphorus (III) oxide (tetraphosphorus hexaoxide), diethyl zinc.

Carbon monoxide, carbon dioxide and formaldehyde.

**Hazardous** Decomposition **Products** 

Possibility of

Can react vigorously with oxidizers. Violent reaction with alkyl aluminium salts, acetyl bromide, hazardous reactions chloroform + sodium methoxide, chromic anhydride, cyanuirc chlorite, lead perchlorate, phosphorous trioxide, nitric acid. Exothermic reaction with sodium hydroxide + chloroform. Incompatible with beryllium dihydride, metals (potassium and magnesium), oxidants (barium perchlorate, bromine, sodium hypochlorite, chlorine, hydrogen peroxide), potassium tert-butoxide, carbon tetrachloride, alkali metals,





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metals (aluminium, potassium magnesium, zinc), and dichlormethane. Rapid autocatalytic dissolution of aluminium, magnesium or zinc in 9:1 methanol + carbon tetrachloride - sufficiently vigorous to be rated

as potentially hazardous. May attack some plastics, rubber, and coatings.

**Hazardous** Polymerization Will not occur.

### 11. Toxicological Information

Toxicology Information This substance should be treated with great care.

Acute Toxicity - Oral LDLo (human): 143 mg/kg;

LC50 (Rat): 131.3 mg/l/4h.

**Acute Toxicity -**Inhalation Ingestion

Inhalation

Effects are the same as those described for 'Inhalation' above. There is a wide range of individual susceptibility to the toxic effects of methanol (from a fatal dose of 15 mL of 40% methanol, to survival following ingestion of 500 mL of the same solution). In general, 300 to 1000 mg/kg is considered the range of minimum lethal dose for untreated cases of methanol poisoning. Methanol can probably be easily aspirated (breathed) into the lungs) during ingestion or vomiting, based on its physical properties and comparison to related alcohols. Aspiration of methanol could cause a potentially fatal accumulation of fluid in the lungs (pulmonary edema). Ingestion is not a typical route of occupational exposure.

A slight irritant to the mucous membranes. Methanol is toxic and can very readily form extremely high vapour concentrations at room temperature. Inhalation is the most common route of occupational exposure. At first, methanol causes mild central nervous system (CNS) depression with symptoms such as nausea, headache, vomiting, dizziness, incoordination and an appearance of drunkenness. A time period with no obvious symptoms follows (typically 8-24 hours, but may last several hours to 2 days). This latent period is then followed by development of metabolic acidosis and severe visual effects. Symptoms such as headache, dizziness, nausea and vomiting, followed in more severe cases by abdominal and muscular pain and difficult periodic breathing have been observed. Coma and death, usually due to respiratory failure, may occur if medical treatment is not received. Visual effects may include reduced reactivity and/or increased sensitivity to light, blurred, double and/or snowy vision, and blindness. Depending on the severity of poisoning and the promptness of treatment, survivors may recover completely or may have permanent blindness, vision disturbances and/or nervous system

Methanol may be moderately irritating to the skin, based on unconfirmed animal information. No human

information was located. Methyl alcohol is a defatting agent and may cause skin to become dry and

cracked. Skin absorption can occur; symptoms may parallel inhalation exposure.

Methanol is a mild to moderate eye irritant, based on animal information. There is no human information available. Inhalation, ingestion or skin absorption of methanol can cause significant disturbances to

vision, including blindness. Refer to 'Inhalation' above for additional information.

Carcinogenicity

Not listed in the IARC Monographs.

Reproductive **Toxicity** 

Skin

Eye

There is no human information available. No conclusions can be drawn based on the available animal information. No effects on reproductive performance were reported in a two- generation reproductive study. Rats were administered 10-1000 ppm by inhalation for 18-20 hours/day. Some studies suggest that inhalation of methanol may affect certain hormones (e.g. testosterone and lutenizing hormone) in male rats. The results have not been consistent or dose-related.

**Chronic Effects** 

Marked impairment of vision has been reported. Prolonged or repeated skin contact may cause dermatitis. Chronic exposure may cause effects similar to those of acute exposure. Methanol is only very slowly eliminated from the body. Because of this slow elimination, methanol should be regarded as a cumulative poison. Though a single exposure may cause no effect, daily exposures may result in the accumulation of a harmful amount.

Serious eye damage/irritation Mutagenicity

Moderate irritant.

There is insufficient information available to conclude that methanol is mutagenic. There is one positive report of mutagenicity in a study using live animals, but there are not enough details available to evaluate the study. Other studies using live animals have produced negative results. Negative results have been obtained in tests using cultured mammalian cells and bacteria. Oral administration of 1000 mg/kg increased the incidence of chromosomal aberrations, as well as the incidence of micronuclei in red blood cells in mice. This study is reported in an abstract and there are not enough details available to draw firm conclusions. Negative results were obtained in other studies where live mice or rats were exposed orally or by inhalation. Negative results have been obtained in most tests involving cultured mammalian cells. A high concentration (7.9 mg/mL) produced positive results in mouse lymphoma cells,





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in the presence of metabolic activation. Negative results have been obtained in tests using bacteria, with or without metabolic activation. Inconclusive results were obtained in one strain of bacteria, in the presence of metabolic activation.

12. Ecological information

**Ecotoxicity** Harmful effect on aquatic organisms. Risk of formation of explosive vapours above water surface.

When used properly, no impairments in the function of waste-water-treatment plants are to be expected.

Persistence and degradability

Abiotic degradation: Slow degradation. (air) Biologic degradation: BOD 76 % von TOD /5 d (closed bottle test).

Readily biodegradable (reduction: DOC >70 %; BOD >60 %; BOD5 to COD >50 %).

Degradability:

BOD5: 0.60 - 1.12 g/g; COD: 1.42 g/g; TOD: 1.5 g/g.

**Mobility** Distribution: log P(o/w): -0.74.

Bioaccumulative

No bioaccumulation is to be expected (log P(o/w < 1)).

Potential

**Environmental** Do not allow to enter waters, waste water, or soil!

**Protection** 

Acute Toxicity - Fish Lepomis macrochirus LC50: 15400 mg/l /96 h (in soft water).

**Acute Toxicity -**

Daphnia

Daphnia magna EC50: > 10000 mg/l /48 h.

**Acute Toxicity -**

Algae

Maximum permissible toxic concentration: Algeal toxicity: Scenedesmus quadricauda IC5: 8000 mg/l /8

Acute Toxicity -

Bacteria

Maximum permissible toxic concentration: Bacterial toxicity: Pseudomonas putida EC5: 6600 mg/l /16 h.

Acute Toxicity - Other Organisms

Maximum permissible toxic concentration: Protozoa : Entosiphon sulcatum EC5: > 10000 mg/l /72 h.

13. Disposal considerations

Disposal Considerations

Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information

Dangerous Goods of Class 3 Flammable Liquids, are incompatible in a placard load with any of the following: - Class 1, Class 2.1, if both the Class 3 and Class 2.1, dangerous goods are in bulk, Class 2.3,

Class 4.2, Class 5, Class 6, if the Class 3 dangerous goods are nitromethane and Class 7.

**U.N. Number** 1230

UN proper shipping METHANOL

name

Transport hazard

class(es)

3

Sub.Risk 6.1

**Hazchem Code** •2WE **Packaging Method** 3.8.3RT1

Packing Group II EPG Number 3A3 IERG Number 16

15. Regulatory information

Regulatory

Listed in the Australian Inventory of Chemical Substances (AICS).

Information

Poisons Schedule S6

16. Other Information

Literature References 'Standard for the Uniform Scheduling of Medicines and Poisons No. 15', Commonwealth of Australia, November 2016.

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Chemicals', 2011.

Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide',

Standards Australia/Standards New Zealand, 2010.

Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.

Safe Work Australia, 'Hazardous Substances Information System, 2005'.

Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.

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#### Empirical Formula & CH3OH Structural Formula

...End Of MSDS...

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