

# SOLVENT SUPPLIES LTD

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Issue: March 2019

## Section 1: Identification of the Material and Supplier

<b>Product Name:</b>	Methanol
<b>Other Names:</b>	Methyl alcohol, methyl hydroxide, carbinol, pyroxylic acid, wood alcohol, wood naphtha, wood spirit.
<b>Recommended use:</b>	Solvent, fuel, feedstock
<b>Company Name:</b>	Solvent Supplies Limited
<b>Address:</b>	33 Miro Street Otaki New Zealand PO Box 2019 Raumati Beach Paraparaumu
<b>Fax:</b>	04 902 1857
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<b>Emergency Telephone:</b>	<b>New Zealand Poisons Centre: 0800 764 766</b> <b>Fire, Police, Ambulance: 111</b>

## Section 2: Hazards Identification

Hazardous substance according to the HSNO Act 1996 Hazardous Substances (Classification) Notice 2017.

EPA New Zealand Approval Code: HSR001186

Refer to [www.epa.govt.nz](http://www.epa.govt.nz) for Controls for this substance.

HSNO Hazard Classification: 3.1B, 6.1C, 6.4A, 6.8B, 6.9A, 9.3C

Pictograms:



Signal Word: DANGER

### Hazardous Statements

H225 Highly Flammable liquid and vapour.	H372 Causes damage to organs through repeated or prolonged exposure.
H301 Toxic if swallowed.	H411 Toxic to aquatic life with long lasting effects.

H311 Toxic in contact with skin.	H433 Harmful to terrestrial vertebrates
H319 Causes serious eye irritation.	
H331 Toxic if inhaled.	
H361 Suspected of damaging fertility or the unborn child.	

### Prevention Statements

P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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 non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe vapours.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves and protective eye/face protection.
P281	Use personal protection equipment as required.

### Response Statements

P308+P313	If exposed or concerned get medical advice.
P314	Get medical advice if you feel unwell.
P301+P310	If swallowed immediately call a Poison Centre or doctor.
P330	Rinse Mouth.
P302+P352	If on skin wash with plenty of soap and water.
P312	Call a Poison Centre or Doctor if you feel unwell.
P361	Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P303+P361+P353	If on skin or hair: Remove immediately all contaminated clothing. Rinse skin with water.
P304+P340	If inhaled remove to fresh air and keep at rest in a position comfortable for breathing.
P311	Call a Poison Centre or Doctor.
P305+P351+P338	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
P337+P313	If eye irritation persists get medical advice.
P370+P378	In case of fire use water fog or mist or alcohol-resistant foam.

### Storage Statement

P403+P235	Store in well-ventilated place. Keep container tightly closed. Keep cool.
P405	Store locked up.

### Disposal Statement

P501	Dispose of product to a landfill in accordance with any local regulations.
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### Section 3: Composition/Information on Ingredients

Common Name:	CAS No:	Proportion (% v/v)
Methanol	67-56-1	100

### Section 4: First Aid Measures

Consult the NATIONAL POISON CENTRE (NZ 0800 764 766) or doctor in every case of suspected poisoning, or if exposed and concerned. If medical advice is needed, have product container or label at hand.

<b>Ingestion:</b>	Rinse mouth with water. DO NOT induce vomiting. Immediately call a Poison Centre or doctor for advice. Do NOT delay. Ingestion of methanol is potentially life threatening. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
<b>Inhalation:</b>	Move person to fresh air immediately. Keep warm and at rest until recovered. Call a Poison Centre or Doctor immediately for advice. If breathing is difficult, administer oxygen.
<b>Skin:</b>	Remove all contaminated clothing and footwear immediately. Wash affected area with plenty of water followed by soap and water. If irritation persists, get medical advice.
<b>Eyes:</b>	Hold eyes open and rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so after the first 5 minutes. Continue rinsing for at least 15 minutes. Get medical attention if irritation persists.
<b>Advice to Physician:</b>	Treat symptomatically. Acute exposure to methanol either through ingestion or inhalation of high concentrations can result in symptoms appearing between 40 minutes and 72 hours following exposure. Symptoms/signs are usually limited to the central nervous system (CNS), eyes and gastrointestinal tract. Initial CNS effects (headache, vertigo, lethargy, confusion) may give the impression of ethanol intoxication. Blurred vision, decreased acuity (ability to see, hear and understand) and photophobia (visual intolerance to light) are also common. Treatment with IPECAC or lavage is indicated for any patient presenting within two hours of ingestion. A profound metabolic acidosis occurs in severe poisoning and serum bicarbonate levels are a more accurate of severity than the serum methanol levels. Ethanol significantly decreases the toxicity of methanol because it competes for the same metabolic enzymes.

### Section 5: Fire Fighting Measures

<b>Extinguishing Media:</b>	Use dry chemical powder, carbon dioxide or water spray or alcohol resistant foam. For large fires use alcohol resistant foam. DO NOT use water in a jet.
<b>Fire &amp; Explosion Hazards:</b>	Methanol vapours may burn with an invisible or clear flame. Toxic gases and vapours may be generated; carbon monoxide, carbon dioxide, formaldehyde.
<b>Specific Hazards:</b>	Vapours can accumulate in confined spaces resulting in toxicity and flammability hazards. Vapours can flow along surfaces to distant ignition sources and flash back. Closed containers may rupture violently and suddenly release large quantities of product. Cool fire exposed containers with water spray. Concentrations of >25% methanol in water can be ignited.
<b>Fire-fighting Equipment:</b>	Wear self-contained breathing apparatus and personal protection clothing.

Section 6:	Accidental Release Measures
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**Spills:**

Highly flammable liquid. Can burn without visible flame. Vapour forms explosive mixture with air. Isolate hazard area and keep unnecessary or unprotected people away from area. Stay upwind and keep out of low lying areas. Wear personal protective equipment. Avoid contact with skin and eyes. Shut off leak if safe to do so. Remove or isolate ignition sources. Contain spill. Avoid run off into drains or sewers. Do not contaminate watercourses or the ground. Take precautions against static discharge. Bound or ground (earth) all equipment. Ventilate contaminated area.

For large spills (more than a drum) recover liquid and transfer by mechanical means to labeled salvage tank that can be sealed for recovery or disposal of product. Allow residues to evaporate. Water can be used to disperse vapours and to clean spill area and dispose of safely by waste management company.

For small spills absorb with an appropriate material e.g. vermiculite, and dispose of waste safely in a labeled sealed container for recovery or disposal.

If contamination of drains, sewers or water ways occurs, immediately notify Emergency Services (111).

**Disposal:**

Dispose of contaminated waste or product to a solvent recycling facility or to an approved landfill in accordance to local regulations.

Section 7:	Handling and Storage
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**Handling:**

Highly flammable liquid. Read label before use. Use only in well-ventilated area. Avoid breathing vapours or direct contact with product. Wear personal protection equipment. Wash hands and exposed skin after handling. Wash contaminated clothing and equipment before reuse.

No smoking. Remove or isolate ignition sources. Avoid sparks. Electrostatic charge may be generated during pumping with risk of fire. Restrict line viscosity to avoid generation of electrostatic discharge.

Take precautions to use bonded or grounded (earthed) equipment. Do not use compressed air for filling, discharging or handling. Keep container closed when not in use. Wear personal protective equipment to prevent breathing of and contact with product. Wear gloves and protect eyes from splashes. Wash hands and exposed skin after handling.

**Storage:**

Ensure all storage areas have adequate fire-fighting equipment. Store locked up in original container in a secure cool dry well ventilated place, away from sunlight, ignition sources, heat, incompatible substances, aerosols, other flammables, oxidizing agents and corrosives, out of reach of children and away from food, drink and animal foodstuffs. Take precautions to avoid accumulation of vapours in pits and confined spaces. All equipment must be grounded/bonded when transferring product to avoid static discharge. Ensure all ignition sources are eliminated or purge storage tanks with inert gas such as nitrogen.

**Recommended materials:**

Anhydrous methanol is non-corrosive to most metals at ambient temperatures except for lead, nickel, monel, cast iron and high silicon iron. Polyethylene, neoprene, phenolic resins, polyesters, natural rubber, butyl rubber and polyvinyl chloride (unplasticised) shown more resistance to corrosion by methanol.

**Unsuitable materials:**

Coatings of copper (or copper alloys), zinc (including galvanized steel) or aluminum are unsuitable for storage. May attack some forms of plastic, rubber and coatings.

Section 8:	Exposure Controls/Personal Protection
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**Exposure Guidelines:**

NZ Workplace Exposure Standard (WES) has been set for this substance.

	WES-TWA	WES-STEL
Methanol BIO. SKIN	200 ppm (262 mg/m <sup>3</sup> )	250 ppm (262 mg/m <sup>3</sup> )

**Engineering Controls:**

Use only in a well ventilated area. An approved half-face filter mask may be suitable for low concentration level exposures. Otherwise, use an appropriate full-face mask fitted with an approved vapour cartridge. Where air filtering respirators are unsuitable (e.g. airborne concentrations are high, risk or oxygen deficiency, confined space) use positive pressure breathing apparatus.

**Personal Protection Equipment (PPE):**

Wear protective clothing and safety boots or shoes. Wear appropriate chemical resistant gloves e.g. butyl or nitrile rubber. Wear chemical goggles or safety glasses with side shields.

Section 9: Physical and Chemical Properties

<b>Appearance:</b>		Clear, colourless liquid
<b>Odour:</b>		Mild, characteristic alcohol
<b>Odour Threshold:</b>		Not available
<b>pH:</b>		Not applicable
<b>Melting Point/Freezing Point</b>	°C	Not applicable
<b>Boiling Point/Boiling Range:</b>	°C	64.7
<b>Freezing Point</b>	°C	Not available
<b>Flash Point:</b>	°C	11.0
<b>Flammability:</b>	(solid, gas)	Not applicable
<b>Upper/Lower Flammability limits in air</b>	(% v/v):	6.0 to 36.5
<b>Vapour Pressure:</b>	kPa @ 20°C	12
<b>Vapour Density:</b>	(air=1)	1.105 @ 15°C
<b>Relative Density at 15°C:</b>	g/cc	0.82
<b>Solubility in water:</b>		Completely soluble
<b>Partition coefficient:</b>	n-octanol/water	Not available
<b>Auto Ignition Temperature:</b>	°C	464
<b>Decomposition Temperature:</b>	°C	Not available
<b>Kinematic Viscosity:</b>		Not available
<b>Volatile Organic Carbon Content:</b>		Not available
<b>Evaporation Rate:</b>	(nBuAc =1)	4.1

Section 10: Stability and Activity

<b>Stability:</b>	Stable under normal conditions of storage and use.
<b>Conditions to avoid:</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Incompatibility (Materials to avoid):</b>	Strong oxidizing agents, strong mineral or organic acids and strong bases. Contact may result in a violent or explosive reaction. Corrosive to lead, aluminum or magnesium and platinum. May react with metallic aluminum or magnesium and generate hydrogen gas. May attack some forms of plastic, rubber and coatings.
<b>Hazardous Decomposition Product:</b>	Dependent on conditions under which decomposition occurs; gases (carbon monoxide, carbon dioxide, formaldehyde) will be evolved.
<b>Hazardous Polymerization:</b>	Not known to occur.

Section 11: Toxicological Information

**Potential Health Effects:**

This section includes possible adverse effects which might occur if this product is not handled in the recommended manner.

<b>Acute Toxicity:</b>	Toxic if ingested and absorbed through skin or by inhalation. Ingestion of even small amounts could potentially cause blindness and death. Odour threshold is several times higher than WES concentration. Symptoms/signs are usually limited to the central nervous system (CNS), eyes and gastrointestinal tract. Effects of sub lethal doses can be nausea, headache, abdominal pain, vomiting and visual disturbances. Initial CNS effects (headache, vertigo, lethargy, confusion) may give the impression of ethanol intoxication. Blurred vision, decreased acuity (ability to see, hear and understand) and photophobia (visual intolerance to light) are common.
<b>Aspiration Hazard:</b>	Not classified.
<b>Respiratory Irritation:</b>	May irritate the upper respiratory tract.
<b>Skin Corrosion/Irritation:</b>	Prolonged contact may also result in defatting of the skin leading to dermatitis and aggravation of any pre-existing skin conditions.
<b>Serious Eye Damage/Irritation:</b>	Mild to moderate irritant to eyes. Symptoms can include tearing, redness and blurring.
<b>Respiratory or Skin Sensitization:</b>	Not classified for sensitization effects.
<b>Germ Cell Mutagenicity:</b>	Not classified with mutagenic properties.
<b>Carcinogenicity:</b>	Not classified with carcinogenic properties.
<b>Reproductive Toxicity:</b>	Not classified.
<b>Specific Organ Toxicity (Repeated and Single Exposure):</b>	Causes visual disturbances e.g. blurring or vision, constriction of visible field in colour perception, temporary or permanent blindness.
<b>Narcotic Effects:</b>	Vapours are inhaled at high concentrations will have effects on central nervous system; nausea, dizziness, drowsiness.

**Toxicological Information:**

<b>Human, Oral:</b>	LD <sub>50</sub>	300 mg/kg bw
<b>Human:</b>	LC <sub>50</sub> (4h)	10 mg/L

Primates have dermal LD<sub>50</sub> OF 393 mg/kg; monkey has inhalation of LC<sub>50</sub> (4h) of 52 mg/L. Humans are considered to be 6 to 10 times more susceptible.

**Additional Information:**

Persons with pre-existing skin disorders, eye problems, respiratory conditions or impaired liver or kidney functions may be more susceptible to the effects of this product.

Section 12:	Hazard Identification
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<b>Eco-Toxicity:</b>	Product is classified as harmful to terrestrial vertebrates.
<b>Persistence/Degradability:</b>	Expected to be rapidly biodegradable. Readily evaporates. Oxidizes by

	photochemical reactions in air.
<b>Potential for Bioaccumulation:</b>	Not expected to bio-accumulate significantly.
<b>Mobility in soil:</b>	Soluble in water. Expected to have high mobility in soil.
<b>Other adverse effects:</b>	Not available
<b>Ecological Data:</b>	<b>Methanol:</b> Mouse, Oral, LD <sub>50</sub> 870 mg/kg bw

Section 13:	Disposal Considerations
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**Disposal:**

Recover and recycle product whenever possible. Send clean, dry drums to recycling facility or metal scrap re-claimer. Dispose of waste in accordance with Regional Authority or local council bylaws.

**Special Precautions:**

Ensure empty containers are vented and dry. Residues may cause an explosion hazard. Do not puncture, cut or weld unclean drums. Do not use empty drums for storing other products.

Section 14:	Transport Information
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This product is classified as a Dangerous Goods Class 3, packing group II.

Please consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

**Transport Information**

<b>UN Number:</b>	1230
<b>Proper Shipping Name:</b>	METHANOL
<b>Class:</b>	3
<b>Sub risk:</b>	6.1
<b>Packing Group:</b>	II
<b>HAZCHEM:</b>	3WE
<b>Marine Pollutant:</b>	No



Section 15:	Regulatory Information
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**Hazardous substance according to the HSNO Act 1996 Hazardous Substances (Classification) Notice 2017.**

**HSNO Substance Approval Code:** HSR001186; Methanol

Refer to Section 2 for hazardous classification and to [www.epa.govt.nz](http://www.epa.govt.nz) for controls and conditions.

Methanol ©Solvent Supplies Ltd

Date: March 2019

Review: March 2024



For additional compliance information, refer to Worksafe NZ [www.worksafe.govt.nz](http://www.worksafe.govt.nz)

Section 16:	Other Information
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**Date of Preparation:** March 2019.  
**Replaces:** SDS Dated 13 March 2014.  
**Reasons for Issue:** Review of SDS and product information.

**Abbreviations:**

**CAS Number:** Chemical Abstracts Number  
**EPA:** Environmental Protection Authority  
**HSNO:** Hazardous Substances & New Organisms  
**STEL:** Short Term Exposure Limit (15 minute exposure period)  
**TWA:** Time Weighted Average  
**WES:** Workplace Exposure Standard

**Safety data sheets are updated frequently. Please ensure you have a current copy.**

**Disclaimer:**

*Before using this product, read its label carefully to ensure that you understand its contents. The information contained herein is based on data considered accurate and reliable to the best of our knowledge and belief of the date compiled. However no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use hereof. Solvent Supplies Limited assumes no responsibility for personal injury or property damage to vendors, users or third parties caused by the material. Such users or vendor assume all risks associated with the use of the material. It is the user's responsibility to satisfy themselves as to the suitability and completeness of the information for their own particular use. The users must determine whether the use of the information and data is in accordance with local laws and regulations*