

# SOLVENT SUPPLIES LTD

33 Miro Street  
Otaki NZ

Website: [www.solventsupplies.co.nz](http://www.solventsupplies.co.nz)  
Email: [support@solventsupplies.co.nz](mailto:support@solventsupplies.co.nz)

Issue: April 2024

## Section 1: Identification of the Material and Supplier

<b>Product Name:</b>	Toluene
<b>Other Names:</b>	Methyl benzene, methyl benzol, phenylmethane, toluol
<b>Recommended use:</b>	Solvent for use only in industrial manufacturing processes.
<b>Company Name:</b>	Solvent Supplies Limited
<b>Address:</b>	33 Miro Street Otaki New Zealand
<b>Email:</b>	<a href="mailto:support@solventsupplies.co.nz">support@solventsupplies.co.nz</a>
<b>Emergency Telephone:</b>	<b>New Zealand: 800 737 63</b> <b>Monday to Friday 8.00am – 4.30pm</b> <b>New Zealand Poisons Centre: 0800 764 766</b>  <b>Australia: 1800 738 383</b> <b>Australian Poisons Centre: 1800 131 126</b>

Dangerous Goods	Products that are classified as Dangerous for Storage and Transport: these products are allocated a UN No; with accompanying Class, Pack Group and Sub. Risk, if required. Products that do not have a specific description under the code but have low flash points, or such, must be classified under their most significant risk e.g Flammable Goods N.O.S (Not Otherwise Specified) UN 1993
Hazardous Substance	Products are considered to be hazardous if they pose intrinsic risk to human or environmental health, such as mutagens (able to change DNA) teratogens (able to result in birth defects) carcinogens (able to generate cell abnormalities) etc.
HSNO Act	Hazardous Substance and New Organisms Act – limits and manages the transaction of hazardous substances in New Zealand and her territories.

## Section 2: Hazards Identification

**Hazard Identification:** HAZARDOUS according to NZ HSNO Act 1996 Hazardous Substances (Classification) Notice 2017.

**EPA Approval Code:** HSR001227

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

<b>HSNO Classification:</b>	3.8B, 6.1D, 6.3A, 6.4A, 6.8B, 6.9B, 9.1D, 9.3C
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### Pictograms:



**Signal Word:** DANGER

**Hazardous Statements**

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H333 May be harmful if inhaled.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H402 Harmful to aquatic life.
H433 Harmful to terrestrial vertebrates.

**Precaution Statements**

P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until safety precautions have been met 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 only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe vapours.
P264	Wash hands and exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.
P281	Use personal protective equipment as required.

**Response Statements:**

P101	If medical advice is needed have product container or label at hand.
P301+P310	If swallowed immediately call a Poison Centre or doctor.
P330	Rinse mouth.
P303+P352	If on skin: Wash with plenty of soap and water.
P332+P313	If skin irritation occurs: Get medical advice.
P362	Take off contaminated clothing and wash before re-use.
P304+P340	If inhaled: remove to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a Poison Centre or a doctor if you feel unwell.
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.
P308+P313	If exposed or concerned get medical advice.
P314	Get medical advice if you feel unwell.
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 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)
Toluene	1088-88-3	100

**Section 4: First Aid Measures**

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

<b>Ingestion:</b>	Rinse mouth with water. <b>Do not</b> induce vomiting. Call a Poison Centre or doctor for advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
<b>Inhalation:</b>	Move person to fresh air and keep warm and at rest until recovered. Call a Poison Centre or doctor immediately for advice or take to local medical facility if person feels unwell. If breathing is difficult, give oxygen.
<b>Skin:</b>	Remove immediately all contaminated clothing. Wash affected area with plenty of water followed by soap and water. Get medical advice if irritation occurs. Wash contaminated clothing/footwear before reuse.
<b>Eye Contact:</b>	Hold eyes open and rinse continuously with running 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>Notes to Physician:</b> Treat symptomatically. Potential for chemical pneumonitis. Consider lavage with protected airway.	

**Section 5: Fire Fighting Measures**

<b>Extinguishing Media:</b>	Use water fog or mist or alcohol-resistant foam. Use dry chemical powder, carbon dioxide, sand or earth for small fires
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	only. Do not use water in a jet.
<b>Fire and Explosion Hazards:</b>	Above flash point, vapour air-mixtures are explosive. Contact with strong oxidizers may cause fire or explosion. Sensitive to static discharge. In case of fire, avoid breathing smoke. Prevent extinguishing water from getting into the aquatic environment.
<b>Specific Hazards:</b>	Vapour is heavier than air and will spread across the ground and distant ignition is possible. Cool fire exposed containers with water.
<b>Fire-Fighting Equipment:</b>	Wear personal protection clothing and self-contained breathing apparatus.

Section 6:	Accidental Release Measures
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<b>Spills:</b>	<p>Wear personal protective equipment. Avoid contact with skin and eyes. Highly flammable liquid. Shut off leak if safe to do so. Remove or isolate ignition sources. Take precautions against static discharge. Bond or ground (earth) all equipment. Use non-sparking tools. Ventilate contaminated area.</p> <p>Isolate area and keep unnecessary and unprotected people away from area. Stay upwind and keep out of low-lying areas.</p> <p><i>For large spills</i> (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. Do not flush residues with water. Allow residues to evaporate. Remove any contaminated soil and dispose of safely with waste management company.</p> <p><i>For small spills</i> absorb with an appropriate material e.g vermiculite and dispose of waste safely in a labeled sealed container for recovery or disposal.</p> <p><b>If contamination of drains, sewers or water ways occurs immediately notify Emergency Services (111).</b></p>
<b>Disposal:</b>	Disposal of contaminated waste or product to solvent recycling facility or to an approved landfill in accordance with local regulations.

Section 7:	Handling and Storage
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<b>Handling:</b>	<p>Highly flammable liquid and vapour. Read label before use. Keep container close when not in use. Use only in well ventilated areas. No smoking. Avoid breathing vapours or direct contact with product. Wear personal protective equipment. Wash hands and exposed skin after handling.</p> <p>Remove ignition sources. Avoid sparks. Electrostatic charge may be generated during pumping with risk of fire. Restrict line viscosity to avoid generation of electrostatic discharge (<math>\leq 1\text{m/sec}</math> until fill pipe submerged to twice its diameter, then <math>\leq 7\text{m/sec}</math>). .</p> <p>Take precautions to use bonded or grounded (earthed) equipment. Do not use compressed air for filling, discharging or handling.</p>
<b>Storage:</b>	Ensure all storage areas have adequate fire-fighting equipment. Store securely in closed

	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 and out of reach of children. Keep away from food, drink and animal foodstuffs. Vapour heavier than air. Take precautions to avoid accumulation of vapours in pits and confined spaces.
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<b>Recommended Materials:</b>	Not available
<b>Unsuitable Materials:</b>	Natural rubber, butyl rubber, EPDM, polystyrene, polyethylene, PVC, polypropylene and polyacrylonitrile.

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
Toluene (skin)	50 ppm (188 mg/m <sup>3</sup> )

<b>Biological Exposure Indices:</b>	0.3 mg toluene/litre urine
	0.3 mg – cresol/g creatinine in urine (following hydrolysis)

<b>Engineering Controls:</b>	Use only in well ventilated areas. A half face filter mask suitable for organic gases and vapours is recommended. Otherwise, use a full-face mask. Where air filtering respirators are unsuitable (e.g air borne concentrations are high risk or oxygen deficiency, confined space) use positive pressure breathing apparatus.
<b>Personal Protective Equipment (PPE):</b>	Wear protective clothing including safety shoes or boots that are chemically resistant. Wear appropriate chemical resistant gloves e.g. PVC or Viton may be suitable. Wear chemical goggles if splash or aerosol/mist exposure risk. Avoid contact with eyes. Refer to the relevant AS/NZ Standards for appropriate personal protective equipment.

Section 9:	Physical and Chemical Properties
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Property	Typical Value
<b>Appearance:</b>	Clear, colourless liquid
<b>Odour:</b>	Aromatic benzene-like
<b>Odour Threshold:</b>	Not available
<b>pH:</b>	Not applicable
<b>Melting point/Freezing Point(°C) :</b>	Not available
<b>Boiling Point/Boiling Range (°C):</b>	111
<b>Flash Point (°C):</b>	7
<b>Flammability (solid, gas):</b>	Not applicable

<b>Upper/Lower flammability limits in air (% v/v):</b>	1.1 to 7.1
<b>Vapour Pressure (kPa @ 20°C):</b>	22
<b>Vapour Density (air=1):</b>	3.14
<b>Relative Density at 20°C, g/cc:</b>	0.86
<b>Solubility in Water:</b>	0.05g/100 ml (@ 20°C)
<b>Partition coefficient: n/octanol/water:</b>	Not available
<b>Auto ignition Temperature (°C):</b>	Not available
<b>Decomposition Temperature (°C):</b>	Not available
<b>Dynamic Viscosity (mPa.s @ 20°C):</b>	Not available
<b>Volatile Organic Carbon Content:</b>	Not available
<b>Evaporation rate (nBuAc=1):</b>	Not available

Section 10:	Stability and Activity
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<b>Stability:</b>	Stable under normal storage and use conditions.
<b>Conditions to Avoid:</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Incompatibility (Materials to avoid: )</b>	Strong oxidizing agents and strong acids (e.g. nitric and sulphuric acid), chlorine, nitrogen tetroxide, some forms of plastics, rubber and coatings.
<b>Hazardous Decomposition Products:</b>	Dependent on conditions under which decomposition occurs. Gases (carbon dioxide, carbon monoxide) will be evolved.
<b>Hazardous Polymerization:</b>	Not known to occur.

Section 11:	Toxicological Information
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**Potential Health Effects:** This section includes possible adverse effects which could occur if this product is not handled in the recommended manner.

<b>Acute Toxicity:</b>	Harmful if swallowed, if inhaled or in contact with skin. Symptoms if swallowed may include abdominal spasms, fatigue, confusion, headache, dizziness and drowsiness. If inhaled, symptoms of overexposure include fatigue, confusion, headache, dizziness and drowsiness. Other symptoms may include peculiar skin sensations such as pins and needles or numbness. Exposure to high concentrations may cause unconsciousness and death.
<b>Aspiration Hazard:</b>	Not classified with aspiration hazard however aspiration into the lungs can cause chemical pneumonitis which can be fatal.
<b>Respiratory Irritation:</b>	Inhalation of vapours may be irritating to the respiratory system.
<b>Skin Corrosion/Irritation:</b>	Serious skin irritant. May be absorbed through skin.
<b>Serious Eye Damage/Irritation:</b>	Severely irritating to eyes. Symptoms can include a burning sensation, redness, swelling and/or blurred vision.
<b>Respiratory or Skin Sensitisation:</b>	Not classified.
<b>Germ Cell Mutagenicity:</b>	Not classified as a carcinogen.

<b>Carcinogenicity:</b>	Not classified.
<b>Reproductive Toxicity:</b>	Identified as suspected of damaging fertility or the unborn child.
<b>Specific Organ Toxicity (Repeated and Single Exposure):</b>	If inhaled may cause adverse effects through prolonged or repeated exposure. Organs that may be affected include kidneys, blood system and central nervous system.
<b>Narcotic Effects:</b>	No information available.
<b>Toxicological Data:</b>	Oral, rat LD50: 636 mg/kg b.w Inhalation: LC50 (4hr) rat: 12.5-28.8 mg/L

*No additional information available.*

Section 12:	Ecological Information
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<b>Eco-toxicity:</b>	This product has been classified as being eco-toxic. Harmful in the aquatic environment and to terrestrial vertebrates.
<b>Persistence/Degradability:</b>	Readily biodegradable. Oxidizes by photo-chemical reactions in air.
<b>Potential for Bioaccumulation:</b>	Not expected to bio-accumulate significantly.
<b>Mobility in Soil:</b>	Product has minimal solubility in water but may be mobile in soil. May contaminate groundwater. Avoid contamination of drains and waterways.
<b>Other Adverse Effects:</b>	Not available.
<b>Eco-toxicological Data:</b>	<b>Oncrohynchus mykiss:</b> EC50 (96hr) 5.8 mg/L <b>Daphnia magna:</b> EC50 (48hr) 11.5 mg/L <b>Selenastrum capricornutum:</b> EC50 (72hr) 12.5 mg/L

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 reclaimer. 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 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:	
UN Number:	1294
Proper Shipping Name:	Toluene
DG Class:	3

Sub Risk:	-
Pack Group:	II
Hazchem:	2YE
Marine Pollutant:	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:** HSR001227, TOLUENE

Refer to Section 2 for hazardous classification and to [www.epa.govt.nz](http://www.epa.govt.nz) for controls and conditions. 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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**Issue Date:** April 2024  
**Replaces:** SDS Dated March 2019  
**Reasons for issue:** Review of SDS

**Abbreviations:**

CAS Number: Chemical Abstracts Number  
EPA: Environmental Protection Authority  
HSNO: Hazardous Substance & 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.**

**References:**

-  Chemical Classification and Information Database (CCID); [www.epa.govt.nz](http://www.epa.govt.nz)
-  Supplier Safety Data Sheet for components

**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.*