

# SOLVENT SUPPLIES LTD

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Otaki NZ

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Date: April 2019

Issue Number: 2

## Section 1: Identification of the Material and Supplier

**Product Name:** n-Butanol  
**Other Names:** Normal butanol, 1-Butanol, N-Butyl alcohol, Propyl carbinol, Butyl alcohol, Methylolpropane.  
**Use:** Solvent for use only in industrial manufacturing processes.  
**Company Name:** Solvent Supplies Limited  
**Address:** 33 Miro Street, Otaki, New Zealand  
PO Box 2019  
Raumati Beach  
Paraparaumu

Fax: 04 902 1857

Email: [ss1994ltd@gmail.com](mailto:ss1994ltd@gmail.com)

**Emergency Telephone:**

**Police, Fire And Ambulance: 111**

**New Zealand:**

**0800 737 363 Monday to Friday 8.00am – 4.30pm**  
**New Zealand Poisons Centre: 0800 764 766**

## Section 2: Hazards Identification

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

**EPA New Zealand Approval Code:** HSR001096

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

**HSNO Hazard Classification:** 3.1C, 6.1D, 6.3A, 8.3A, 9.3C.

**Pictograms:**



**Signal Word:**

**DANGER**

**Hazard statements:**

H226	Flammable liquid and vapour.
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n-Butanol © Solvent Supplies Ltd

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H302	Harmful if swallowed.
H312	Harmful if in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H433	Harmful to terrestrial vertebrates.

#### Precaution Statements

P102	Keep out of reach of children.
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.
P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective clothing, gloves and protective eye/face protection.

#### Response Statements:

P301+P310	If swallowed: Immediately call a Poison Centre or a doctor.
P330	Rinse mouth.
P302+P352	If on skin: Wash with plenty of soap and water.
P312	Call a Poison Centre or a doctor if you feel unwell.
P363	Wash contaminated clothing before reuse.
P332+P313	If skin irritation occurs: Get medical advice.
P304+P340	If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing.
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.
P310	Immediately call a Poison Centre or doctor.
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.
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#### 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

Chemical Ingredient:	CAS No:	% w/w
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n-Butanol	71-36-3	100
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Section 4: First Aid Measures
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Consult the National Poisons Centre (0800 POISON: 0800 764 766) or a doctor in every case of suspected poisoning. If medical advice is needed, have product container or label at hand.

<b>Ingestion:</b>	Rinse mouth with water. Do NOT induce vomiting. Call a POISON CENTRE or doctor immediately 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 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 person feels unwell or irritation occurs. Wash contaminated clothing before reuse.
<b>Eyes:</b>	Hold eyes open and rinse continuously with water for several minutes. Remove contact lenses if present and easy to do after the first 5 minutes. Continue rinsing for at least 15 minutes. Get medical attention.
<b>Notes to Physician:</b>	Treat symptomatically. Potential for chemical pneumonitis. Consider gastric lavage with protected airway.

Section 5: Fire Fighting Measures
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<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 only. Do not use water in a jet.
<b>Fire &amp; Explosion Hazards:</b>	Above the flashpoint, vapour-air mixtures are explosive. 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 by spraying with water.
<b>Fire-fighting equipment:</b>	Wear self-contained breathing apparatus and personal protection clothing.

Section 6: Accidental Release Measures
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<b>Spills:</b>	Wear personal protective equipment. Avoid contact with skin and eyes. Flammable liquid and vapours. 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. Isolate hazard area and keep unnecessary and unprotected people away from area. Stay upwind and keep out of low lying areas.
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	<p><i>Contain spill.</i> Avoid run off into drains and sewers. Do not contaminate watercourses or the ground.</p> <p><i>For large spills (more than a drum):</i> Recover liquid and transfer by mechanical means to labeled salvage tank that can be sealed for recovery or disposal of product. Do not flush away residues with water. Allow residues to evaporate. Remove any contaminated soil and dispose of safely by 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>	Dispose of contaminated waste or product to a 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>Flammable liquid and vapour. Read label before use. Keep container closed 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. Do not eat, drink or smoke while using.</p> <p>Remove ignition sources. Avoid sparks. Electrostatic charge may be generated during pumping with risk of fire. Restrict the 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>). Take precautions to use bonded or grounded (earthed) equipment. Do not use compressed air for filling, discharging or handling.</p>
<b>Storage:</b>	<p>Ensure all storage areas have adequate fire-fighting equipment. Store securely in closed original container in a cool, dry well ventilated place away from sunlight, ignition sources, heat, incompatible substances, aerosols, other flammables, oxidizing agents and corrosives. Keep out of the reach of children and away from food, drink and animal foodstuffs.</p> <p>Vapour heavier than air. Take precautions to avoid accumulation of vapours in pits and confined spaces.</p>
<b>Recommended Materials:</b>	For containers or container linings, use mild steel or stainless steel. For container paints, use epoxy paint or zinc silicate paint.
<b>Unsuitable Materials:</b>	Not specified.

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

NZ Workplace Exposure Standards (WES) has been set for components in this product.

NAME:	WES-TWA:	WES-STEL:
n-Butanol SKIN	50 ppm (150 mg/m <sub>3</sub> ) ceiling	-

#### Biological Exposure Indices: -

<b>Engineering Controls:</b>	Use only in well ventilated area. 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. Safety shoes or boots need to be 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. Refer to the relevant AS/NZ Standards for appropriate personal protective equipment.

#### Section 9: Physical and Chemical Properties

Property	Unit of Measurement	Typical Value
Appearance:	-	Clear, colourless liquid
Odour:	-	Sweet, pungent
Odour Threshold:	-	Not available
pH:	-	Not applicable
Melting Point/Freezing Point:	°C	-89
Boiling Point/Boiling Range:	°C	117
Flash Point:	°C	38
Flammability:	Solid, gas	Not applicable
Upper/lower flammability limits in air:	%v/v	1.4 to 11.2
Vapour Pressure @ 20°C:	kPa	5
Vapour Density:	air=1	3
Relative Density @20°C :	g/cc	0.81
Solubility in Water:	-	Partially miscible
Partition coefficient:	n-octanol/water	Not available
Auto-ignition temperature:	°C	Not available
Decomposition temperature:	°C	Not available
Dynamic viscosity	mPa.s @ 20°C	Not available
Volatile organic carbon content:	-	Not available
Evaporation rate:	nBuAc=1	Not available

#### 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, reducing agents, slightly reactive with organic materials, acids, alkalis.
<b>Hazardous decomposition product:</b>	Dependent on conditions under which the decomposition occurs; gases (carbon monoxide, carbon dioxide and other compounds) 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, inhaled or in contact with skin. Symptoms of exposure may include headache, nausea, fatigue and dizziness.
<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>	Skin irritant. May be absorbed through skin.
<b>Serious Eye Damage/Irritation:</b>	Severely irritating to the eyes. Symptoms can include burning sensation, redness, swelling and/or blurred vision.
<b>Respiratory or Skin Sensitization:</b>	Not classified.
<b>Germ Cell Mutagenicity:</b>	Not classified.
<b>Carcinogenicity:</b>	Not classified.
<b>Reproductive Toxicity:</b>	Not classified.
<b>Specific Organ Toxicity (Repeated and Single Exposure):</b>	Not classified.
<b>Narcotic Effects:</b>	No information available.
<b>Toxicological Information:</b>	<b>n-Butanol:</b> Oral, rat, LD <sub>50</sub> : 790mg/kg b.w. Dermal, rabbit, LD <sub>50</sub> : 3400mg/kg Inhalation, rat, LC <sub>50</sub> (4hr): 12.5-28.8mg/L
<b>Additional Information:</b>	Not available.

Section 12: Hazard Identification
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<b>Eco-Toxicity:</b>	This product has been classified as being harmful to terrestrial vertebrates.
<b>Persistence and Biodegradability:</b>	Expected to be biodegradable.
<b>Potential for Bio-Accumulation:</b>	Not expected to bio-accumulate significantly.
<b>Mobility in soil:</b>	Product has some 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.
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<b>Section 13:</b>	<b>Disposal Considerations</b>
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**Disposal:**

Recover and recycle product through solvent recovery 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.

<b>Section 14:</b>	<b>Transport Information</b>
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This product is classified as a Dangerous Goods Class 3, Packing Group III.  
Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

<b>UN No</b>	1120
<b>Proper Shipping Name:</b>	BUTANOLS
<b>Class:</b>	3
<b>Sub Risk:</b>	-
<b>Packing Group:</b>	III
<b>Hazchem:</b>	2Y
<b>Marine Pollutant:</b>	No



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

**HSNO Substance Approval Code:** HSR001096; n-Butanol

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)

<b>Section 16:</b>	<b>Other Information</b>
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**Issue Date:** April 2019.  
**Replaces:** SDS Dated 10 March 2014

**Reasons for Issue:** Review of SDS and product information.

**Abbreviations:**

CAS No: Chemical Abstracts Service Number  
EPA: Environmental Protection Authority  
HSNO: Hazardous Substances and New Organisms  
STEL: Short Term Exposure Limit  
TWA: Time Weighted Average  
WES: Workplace Exposure Standard

**References:**

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

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

**Disclaimer:**

*Before using any product, read its label carefully and 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.*