SOLVENT SUPPLIES LTD

33 Miro Street
Otaki NZ
Website: www.solventsupplies.co.nz
Fax: (04) 902 1857
Email: ss1994ltd@gmail.com

Date of Issue: March 2019
Issue Number: 2

Section 1: Identification of the Material and Supplier

Product Name:	ETHANOL NC
Other Names:	Methylated Spirits, Ethanol solution, Ethyl alcohol
Company Name:	Solvent Supplies Limited 33 Miro Street Otaki New Zealand PO Box 2019 Raumati Beach Paraparaumu
Fax:	04 902 1857
Email:	ss1994ltd@gmail.com
Emergency Telephone:	***New Zealand:*** **0800 737 63** **Monday to Friday 8.00am – 4.30pm** **New Zealand Poisons Centre: 0800 764 766** ***Australia:*** **1800 738 383** **Australian Poisons Centre: 1800 131 126**

Section 2: Hazards Identification

Product is classified as hazardous according to Schedules 1 to 6 of the *Hazardous Substances* (Minimum Degrees of Hazard) Regulations 2001 of the HSNO Act 1996.

HSNO Classifications:	3.1B, 6.4A
Signal Word:	DANGER

Pictograms:

Hazardous Statements

H225	Highly Flammable liquid and vapour
H320	Causes serious eye irritation

Prevention Statements

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.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves and protective eye/face protection.

Response Statements

P303+P361+P353	If on skin or hair: Remove immediately all contaminated clothing. Rinse skin with water.
P332+P313	If skin irritation occurs: Get medical advice.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so.
P337+P313	If eye irritation persists: Get medical advice.
P370+P378	In case of fire: Use chemical powder, carbon dioxide, water fog, alcohol-resistant foam.

Storage Statement

P403+P235	Store in well-ventilated place. Keep cool.

Disposal Statement

P501	Dispose of product to a solvent recycling facility or approved landfill in accordance with local regulations.

Section 3: Composition/Information on Ingredients

Chemical Ingredient:	CAS No:	Proportion (% v/v)
Ethyl alcohol	64-17-5	>90

Section 4: First Aid Measures

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

Ingestion	Rinse mouth with water. **DO NOT** induce vomiting. Call a Poison Centre or doctor for advice if person feels unwell. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
Inhalation:	Move person to fresh air and keep warm and at rest. Call a Poison Centre or doctor for advice if person feels unwell.

Skin:	Remove immediately all contaminated clothing. Wash affected area with plenty of water followed by soap and water. If irritation occurs, get medical advice.
Eye:	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.
Notes to Physician:	Treat symptomatically. Causes central nervous system depression.

Section 5: Fire Fighting Measures

Extinguishing Media:	Use water fog or spray 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.
Fire & Explosion Hazards:	In case of a fire, avoid breathing smoke. Smoke and harmful gases evolved on combustion. Prevent extinguishing water from getting into the aquatic environment.
Specific Hazards:	Avoid breathing smoke. Cool fire exposed containers by spraying with water.
Precautions for Fire-fighters and special protective equipment:	Wear self-contained breathing apparatus and personal protective clothing.

Section 6: Accidental Release Measures

Spills:
Wear personal protective equipment. Avoid contact with skin and eyes. Contain spill. Avoid run off into drains or sewers. Do not contaminate watercourses or the ground.
Highly flammable liquid and vapour. Vapour forms explosive mixture with air. 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.

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. Do not flush away residues with water. Allow residues to evaporate. Remove any contaminated soil 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 waterways occurs immediately notify Emergency Services (111).

Disposal:

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

Section 7: Handling and Storage

Handling:
Highly flammable liquid and vapour. Read label before use. Wear personal protective equipment. Wash hands and exposed skin after handling.
Keep container closed when not in use. Use only in a well ventilated area. No smoking. Avoid breathing vapours or direct contact with product. Remove ignition sources. Avoid sparks. Use bonded or grounded (earthed) equipment. Electrostatic charge may be generated during pumping with risk of fire. Do not use compressed air for filling, discharging or handling.

Storage:
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 reach of children and away from food, drink and animal foodstuffs
Vapour heavier than air. Take precautions to avoid accumulation of vapours in pits and confined spaces.

Recommended Materials:
For containers or container lining, use mild steel or stainless steel. For container paints, use epoxy paint or zinc silicate paint.

Unsuitable Materials:
No specific information available.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:
A NZ Workplace Exposure Standard (WES) 2002 has been set for this substance.

	WES-TWA	WES-STEL
Ethyl alcohol	1000 ppm (1880 mg/m3)	-

Engineering Controls:
Use only in a well ventilated area. A half-face filter mask suitable for organic gases and vapours (Type A filter material) may be suitable for low concentration level exposures. Where air filtering respirators are unsuitable (e.g. air-borne concentrations are high, risk or oxygen deficiency, confined space) use positive pressure breathing apparatus.

Personal Protection Equipment (PPE):
Wear impervious antistatic protective clothing. Safety shoes and boots need to be chemically resistant. Wear appropriate chemical resistant gloves e.g. nitirile, butyl rubber and natural rubber. For incidental

contact, neoprene rubber and 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:		Characteristic
Odour Threshold:		Not available
pH:		Not applicable
Melting Point/Freezing Point	(®C)	Not available
Boiling Point/Range:	(®C)	78
Flash Point:	(®C)	13
Flammability (solid/gas):		Not applicable
Upper/lower flammability limits in air:	(%v/v)	3.5 - 19
Vapour Pressure :	(Pa @ 20®C)	57
Vapour Density :	(air=1)	1.59
Relative Density @ 15®C:	g/cc	0.79
Solubility in Water:		Completely miscible
Partition coefficient:	n/octanol/water	Not available
Auto ignition temperature:	(®C)	392
Decomposition temperature:	(®C)	Not available
Kinetic viscosity:		Not available
Volatile organic carbon content:		Not available
Evaporation rate:	(nBuAc=1)	2.53

Section 10: Stability and Activity

Stability:	Stable under normal storage and use conditions and use.
Conditions to Avoid:	Avoid heat, sparks, open flames and other ignition sources.
Incompatibility (Materials to Avoid):	Strong oxidizing agents and strong acids.
Hazardous Decomposition Products:	Dependent on conditions under which decomposition (combustion, thermal or oxidative degradation) occurs. A complex mixture of airborne solids, liquids and gases (carbon monoxide, carbon dioxide) will be evolved.

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.

Acute Toxicity:	May be harmful by ingestion.
Aspiration Hazard:	Not classified with aspiration hazard.
Respiratory Irritation:	Inhalation of vapours may be irritating to the respiratory system.
Skin Corrosion/Irritation:	Slight skin irritant. Prolonged or repeated skin contact may cause defatting of skin which could lead to dermatitis.
Serious Eye Damage/Irritation:	Eye irritant. Symptoms can include burning sensation, redness, swelling and/or blurred vision.
Respiratory or Skin Sensitisation:	Not classified as contact sensitizer.
Germ Cell Mutagenicity:	Not classified with mutagenic properties.
Carcinogenicity:	Not classified with carcinogenicity properties.
Reproductive Toxicity:	Not classified with adverse effects on fertility or the unborn child. Cause feto-toxicity in animals at doses that are maternally toxic.
Specific Organ Toxicity (Repeated and Single Exposure):	Inhalation of high concentrations may cause central nervous system depression. Symptoms may include headache, dizziness and nausea.
Narcotic Effects:	Not classified for narcotic effects.
Toxicological Data:	Oral, mouse: LD50: 7060 mg/kg bw.
Additional Information:	Not available.

Section 12: Hazard Identification

Eco-toxicity:	Product is not classified for eco-toxic properties
Persistence and Bio-Degradability:	Expected to be rapidly biodegradable. Oxidizes rapidly by photo chemical reactions in air.
Potential for Bio-Accumulation:	Not expected to bio-accumulate significantly.
Mobility in Soil:	Product is miscible in water and mobile in soil. May contaminate groundwater.
Other Adverse Effects:	Not available.
Eco-toxicity Data:	Not available.

Section 13: Disposal Considerations

Disposal Methods:
Recover and recycle 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 for Landfill or Incineration:
Ensure that empty containers are vented and dry. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Do not use empty drums for storing other products.

Section 14: Transport Information

Road and Rail Transport		Marine Transport		Air Transport	
UN No	1170	**UN No**	1170	**UN No**	1170
Proper Shipping Name:	Ethanol (Ethyl Alcohol)	**Proper Shipping Name:**	Ethanol (Ethyl Alcohol)	**Proper Shipping Name:**	Ethanol (Ethyl Alcohol)
DG Class:	3	**DG Class:**	3	**DG Class:**	3
Sub Risk:	-	**Sub Risk:**	-	**Sub Risk:**	-
Pack Group:	II	**Pack Group:**	II	**Pack Group:**	II
Hazchem:	2YE	**Hazchem:**	2YE	**Hazchem:**	2YE
Marine Pollutant:	No	**Marine Pollutant:**	No	**Marine Pollutant:**	No

Section 15: Regulatory Information

Hazardous substance according to the HSNO Act 1996 Hazardous Substances (Classification) Notice 2017.
HSNO Substance Approval Code: HSR001144; ETHANOL

Refer to Section 2 for hazardous classification and to www.epa.govt.nz for controls and conditions.
For additional compliance information, refer to Worksafe NZ at www.worksafe.govt.nz

Section 16: Other Information

Issue Date: March 2019
Replaces: SDS Dated 10 August 2015
Reasons for issue: Review of SDS format and product information.

Abbreviations:

CAS Number: Chemical Abstracts Number
CCID: Chemical Classification and Information Database
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

References:

- Chemical Classification and Information Database (CCID); www.epa.govt.nz
- Supplier Safety Data Sheets

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

Disclaimer:

Before using any 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 complied. 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.