

ETHANOL DENATURED – SAFETY DATA SHEET
SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING
PRODUCT IDENTIFIER

Product name	Ethanol Solution, Denatured Alcohol
Uses	Industrial solvent; cleaning component

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Registered distributor company name	Pure Ingredients Ltd
Address	626A Rosebank Road, Avondale, Auckland 1026 New Zealand
Telephone	+649 8135619
Website † Email	www.pureingredients.co.nz † compliance@pureingredients.co.nz

EMERGENCY TELEPHONE NUMBER

CHEMCALL	0800 CHEMCALL / 800 243 622 (24hr)
Emergency telephone numbers	111
Other emergency telephone numbers	NZ Poisons Centre 0800 POISON (0800 764 766)

SECTION 2 HAZARDS IDENTIFICATION
HSNO Hazard Classification: 3.1B, 6.1E (oral), 6.1E (inhalation), 6.3B, 6.4A

Hazardous Nature: This product is classified as hazardous under HSNO criteria.

Pictogram:


Signal Word: **Danger**

HAZARD STATEMENT:	H225 Highly flammable liquid and vapour. H303 May be harmful if swallowed. H333 May be harmful if inhaled. H316 Causes mild skin irritation. H319 Causes serious eye irritation.
PREVENTION:	P103 Read label before use. P104 Read Safety Data Sheet before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/light/.../equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.
RESPONSE:	P305+P351+P338 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P337+P313 IF eye irritation persists get medical advice/attention. P303+P361+P353 IF ON SKIN (or HAIR) Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P332+P313 If skin irritation persists get medical advice/attention. P304+P312 IF INHALED: Call a Poisons Centre or doctor/physician if you feel unwell. P331 Do not induce vomiting. P101 If medical advice is needed, have product container or label at hand. P312 Call a Poisons Centre or doctor/physician if you feel unwell.
STORAGE:	P403+P235 Store in a well-ventilated place. Keep cool.
DISPOSAL:	P501 Dispose of contents, or container in accordance with local/regional/national/international regulation.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS Number	Proportion
Ethyl alcohol	64-17-5	≥ 99
Tert-butyl alcohol	75-65-0	0.25

SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

General Advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Ingestion	Rinse mouth, refer for medical attention
Eye Contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), refer for medical attention
Skin/Hair Contact	Remove contaminated clothes. Rinse and then wash skin/ hair with water and soap.
Inhalation	Fresh air, rest.
Advice for protecting the rescuer	Remove all sources of ignition and increase ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use personal protective equipment including respirator.
Medical Attention	Treat symptomatically. Symptoms may be delayed.

SECTION 5 FIREFIGHTING MEASURES

Hazard characteristics

Will form explosive mixtures with air. Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration. Vapours may travel to source of ignition and flash back. Liquid and vapour are flammable. Containers may explode when heated. May expand or decompose explosively when heated or involved in fire.

Extinguishing method and media

Suitable extinguishing media: Small Fire : Dry chemical, CO₂, water spray or alcohol-resistant foam; Large Fire : Water spray, fog or alcohol-resistant foam.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter or spread fire.

Fire precautions and measures

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. Fight fire from a safe distance, with adequate cover. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours and contacting with skin and eye. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

SECTION 7 HANDLING AND STORAGE

Precautions for handling

Avoid inhalation of vapours. Use only non-sparking tools. To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded. Use explosion proof equipment. Handling is performed in a well-ventilated place. Wear suitable protective equipment. Avoid contact with skin and eyes. Keep away from heat/sparks/open flames/ hot surfaces.

Precautions for storage

Keep containers tightly closed. Keep containers in a dry, cool and well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. Store away from incompatible materials and foodstuff containers.

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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure limit values: No information available.

Biological limit values: No information available.

Monitoring methods: EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard).

Engineering controls: Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. Set up emergency exit and necessary risk-elimination area.**Respiratory protection:** If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges. **Eye protection:** Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).**Skin and body protection:** Wear fire/flame resistant/retardant clothing and antistatic boots. **Hand protection:** Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.**Other protection:** Smoking, eating and drinking water is forbidden in the workplace. After work, shower and change clothes. To maintain good health habits.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless liquid	Odour	No information available.
pH (Specified the concentration)	7.0 (20°C, 10g/L)	Melting point/freezing point °C	-117
Initial boiling point and boiling range(°C)	79	Density	No information available.
Vapor density (Air=1)	1.6	Relative density(Water=1)	0.79 (20°C)
Saturated vapor pressure (kPa)	5.8 kPa (20°C)	Viscosity(mm2/s)	No information available.
Evaporation rate	No information available	N-octanol/water partition coefficient	-0.32
Flash point °C	13	Upper/lower explosive limits[%(v/v)]	UL: 19; LL: 3.3
Decomposition temperature (°C)	≥ 700	Solubility	Miscible with water
Auto ignition temperature (°C)	363	Flammability	Flammable

SECTION 10 STABILITY AND REACTIVITY

I Stability	Stable at room temperature and pressure
Conditions to Avoid	Sources of heat and ignition, open flames.
Hazardous Reaction	In contact with oxidants causes severe reactions and may cause a fire or explosion.
Incompatible materials	Strong oxidizers, acids, strong alkalis, heat and sources of ignition. Avoid: Contact with strong oxidising agents (e.g. hypochlorite's, peroxides), acids (e.g. sulphuric acid), strong alkalis (e.g. hydroxides).
Decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be products.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity

COMPONENT	CAS NO.	LC ₅₀ (ORAL)	LC ₅₀ (DERMAL)	LC ₅₀ (INHALATION)-4H
Ethyl Alcohol	64-17-5	7060 mg/kg (Rat)	No information available	39mg/L (Mouse)

Carcinogenicity

COMPONENT	CAS NO.	IARC	NTP
Ethyl Alcohol	64-17-5	Category 1	Not listed

Skin irritation/corrosion: No information available

Eye irritation/corrosion: No information available

Skin sensitization: No information available

Respiratory sensitization: No information available

Germ cell mutagenicity: No information available

Reproductive toxicity: No information available

STOT-single exposure: No information available

STOT-repeated exposure: No information available

Aspiration hazard: No information available

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SECTION 12 ECOLOGICAL INFORMATION

Acute Aquatic toxicity

COMPONENT	CAS NO.	FISH	CRUSTACEANS	ALGAE
Ethyl Alcohol	64-17-5	LC ₅₀ : 11000 mg/L (96h) (Fish)	EC ₅₀ : 9950 mg/L (48h) (Crustaceans)	No information available

Chronic aquatic toxicity: No information available.
 Persistence and degradability: No information available
 Bioaccumulative potential: No information available
 Mobility in soil: No information available
 Other deleterious effect: No information available

SECTION 13 DISPOSAL CONSIDERATION

Disposal	Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain harmful residue and/or fumes and vapours that are flammable. Ensure that empty packaging is allowed to dry.
Special Precautions for Landfill or Incineration	This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product must be disposed as chemical waste in accordance with the local authority.

SECTION 14 TRANSPORT INFORMATION

Transport	ROAD-RAIL		MARINE		AIR	
	UN No.	1170	UN No.	1170	UN No.	1170
	Proper Shipping Name	ETHANOL SOLUTION	Proper Shipping Name	ETHANOL SOLUTION	Proper Shipping Name	ETHANOL SOLUTION
	DG Class	3	DG Class	3	DG Class	3
	Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
	Pack Group	II	Pack Group	II	Pack Group	II
	Hazchem	2YE	Hazchem	2YE	Hazchem	2YE

Dangerous Goods Segregation

This product is classified as Dangerous Goods Class 3, packing group II.



SECTION 15 REGULATORY INFORMATION

Status: All components are listed in New Zealand Inventory of Chemicals
 HSNO Approval: HSR001144 | HSR001099
 EPA <https://www.epa.govt.nz/database-search/approved-hazardous-substances-with-controls/view/1519>
<https://www.epa.govt.nz/database-search/approved-hazardous-substances-with-controls/view/1566>

SECTION 16 OTHER INFORMATION

The information contained in this Safety Data Sheet is obtained from current and reliable sources. Pure Ingredients Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product, but does not claim to be all inclusive. This document is intended only as a guide to the appropriate handling of this material.

Version: 00 Revision Date: 21/ 05/ 2020: PIL SA283 0002112020 SDS

Version: 01 Revision Date: 26/06/2020 PIL SDS Change of address - no changes to SDS.