

**1. Identification**

**Product Name:** Alcohol 70%

**Other Means of Identification:** Mixture of Ethanol 95SG (70%) Purified Water (30%)

**Product Code:** 3-51011

**Recommended Use of the Chemical and Restriction on Use:**

Disinfectant, cleaner/sanitizer in hospitals, medical facilities, veterinary facilities & pathology laboratories or other general industries.

**Details of Manufacturer:**

Logikal Health  
 Unit 3, 18-20 Accolade Avenue  
 Morisset NSW 2264  
 Australia

**Phone Number:** (02) 4970 5335



**Emergency telephone number:** 0404 861 904

**2. Hazard(s) Identification**

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).

	Flammable Liquids 2 H225 Highly flammable liquid and vapor
	Serious Eye Damage/Irritation 2A H319 Causes serious eye irritation.

**Signal Word:** Danger

**Hazard Statements**

H225 Highly flammable liquid and vapor.  
 H319 Causes serious eye irritation.

**Precautionary Statements**

P233 Keep container tightly closed.  
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P241 Use explosion-proof electrical/ventilating/lighting equipment.  
 P280 Wear protective gloves / eye protection / face protection.  
 P240 Ground/bond container and receiving equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P264 Wash hands thoroughly after handling.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

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.

P370+P378 In case of fire: Use to extinguish: CO2, powder or water spray.



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

P501 Dispose of contents/container in accordance with local/regional/national regulations.

### 3. Composition and Information on Ingredients

**Chemical Characterization:** Mixtures (70% Ethanol 95% SG & 30% Purified water)

**Description:** Mixture of substances listed below with nonhazardous additions.

Hazardous Components:			
64-17-5	Ethanol	 Flammable Liquids 2, H225;  Serious Eye Damage/Irritation 2A, H319	70%

### 4. First Aid Measures

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

**Symptoms Caused by Exposure:**

Inhalation: May cause irritation to the nose, throat and respiratory system , dizziness, headache and possible confusion

Skin Contact: May cause irritation to the skin, redness and itchiness.

Eye Contact: Causes eye irritation, tearing, pain, stinging and blurred vision.

Ingestion: May cause irritation to mouth, throat and gastrointestinal tract.

### 5. Fire Fighting Measures

**Suitable Extinguishing Media:** Dry chemical, carbon dioxide or foam.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon. Product is highly flammable. Vapours may travel considerable distances to a source of ignition where they can ignite, flashback, or explode. Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

**6. Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Use only non-sparking tools.

**7. Handling and Storage**

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharge. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well-ventilated area. Keep container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents, acids, alkalis, amines and alcohols.

**8. Exposure controls and personal protection**

<b>Exposure Standards:</b>	
<b>64-17-5 Ethanol</b>	
WES	TWA: 1880 mg/m <sup>3</sup> , 1000 ppm

**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

**Respiratory Protection:**

Use an approved half-face respirator with organic vapour cartridge under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

PVC, PVA, nitrile, neoprene, rubber or vinyl gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

## 9. Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear
<b>Odour:</b>	No information available
<b>Odour Threshold:</b>	Not determined.
<b>pH-Value:</b>	Not determined.
<b>Melting point/freezing point:</b>	-117 °C
<b>Initial Boiling Pt/Boiling Range:</b>	78 °C
<b>Flash Point:</b>	12 °C
<b>Flammability:</b>	Highly flammable.
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits;</b>	
<b>Lower:</b>	2.8 Vol %
<b>Upper:</b>	18.2 Vol %
<b>Vapour Pressure at 20 °C:</b>	59 hPa
<b>Relative Density:</b>	No information available
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Soluble in all proportions

## 10. Stability and Reactivity

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** Heat, sparks, open flames and other sources of ignition.

**Incompatible Materials:** Strong oxidising agents, acids, alkalis, amines and alcohols.

**Hazardous Decomposition Products:** Oxides of carbon.

## 11. Toxicological Information

### Toxicity:

LD <sub>50</sub> /LC <sub>50</sub> Values Relevant for Classification: 64-17-5 Ethanol		
Oral	LD <sub>50</sub>	7060 mg/kg (rat)
Inhalation	LC <sub>50</sub> /4 h	20000 mg/l (rat)

### Acute Health Effects:

#### Inhalation:

May cause irritation to the nose, throat and respiratory system, dizziness, headache and possible confusion

**Skin:** May cause irritation to the skin, redness and itchiness.

**Eye:** Causes eye irritation, tearing, pain, stinging and blurred vision.

**Ingestion:** May cause irritation to mouth, throat and gastrointestinal tract.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

#### Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

#### Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:** Prolonged or repeated skin contact may lead to dermatitis.

## 12. Ecological Information

**Ecotoxicity:** No information available

**Aquatic toxicity:** No information available

**Persistence and Degradability:** No information available

**Bio accumulative Potential:** No information available

**Mobility in Soil:** No information available

**Other adverse effects:** No information available

### 13. Disposal considerations

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

### 14. Transport information

<b>UN Number</b>	
<b>ADG, IMDG, IATA</b>	UN1170
<b>Proper Shipping Name</b>	
<b>ADG</b>	1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
<b>IMDG</b>	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
<b>IATA</b>	ETHANOL SOLUTION
<b>Dangerous Goods Class</b>	
<b>ADG Class:</b>	3 (F1) Flammable liquids.
<b>IMDG Class:</b>	3 Flammable liquids.
<b>Packing Group:</b>	
<b>ADG, IMDG, IATA</b>	II
<b>EMS Number:</b>	F-E,S-D
<b>Hazchem Code:</b>	2YE
<b>Special Provisions:</b>	144
<b>Limited Quantities:</b>	1L
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P001, IBC02
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T4
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	TP1

### 15. Regulatory information

Australian Inventory of Chemical Substances:	
CAS Number	Name
64-17-5	Ethanol
7732-18-5	Water

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Not Scheduled.

**16. Other information**

**Date of Preparation or Last Revision:** 03.04.2020

**Prepared by:** Logikal Health

**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC<sub>50</sub>: Lethal concentration, 50 percent

LD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Flammable Liquids 2: Flammable liquids – Category 2

Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016". The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Logikal Health Products Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.