# SAFETY DATA SHEET



Revision date: 25-Aug-2021

**Revision Number** 1

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product identifier** 

Product Name Methylated Spirits

Product Code(s) 000000067028

Other means of identification

UN number 1170

Safety data sheet number MS115

Recommended use of the chemical and restrictions on use

Recommended use Solvent.

**Uses advised against** No information available.

**Supplier** 

Liquimix Pty Ltd ABN: 32 062 887 585 Street Address: 24 Rosa Place Richlands QLD 4077

Australia

Telephone Number: +61 7 3277 6655

## Emergency telephone number

Emergency telephone number 1 800 033 111 (ALL HOURS)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

## 2. HAZARDS IDENTIFICATION

## **GHS Classification**

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

Flammable liquids	Category 2
Serious eye damage/eye irritation	Category 2A

#### **SIGNAL WORD**

Danger

#### Label elements



**Exclamation mark** 



#### **Hazard statements**

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

### **Precautionary Statements - Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Ground and bond container and receiving equipment

Use explosion-proof electrical, ventilating, lighting equipment

Use non-sparking tools

Take precautionary measures against static discharge

Wash hands and face thoroughly after handling

Wear protective gloves / protective clothing / eye protection / face protection

## **Precautionary Statements - Response**

Specific treatment (see First aid on this SDS)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

IF ON SKIN (or hair):

Remove/Take off immediately all contaminated clothing

Rinse skin with water/shower

In case of fire: Use extinguishing media as outlined in Section 5 of this Safety Data Sheet for extinction.

## **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

#### **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

## Other hazards which do not result in classification

Poisons Schedule (SUSMP)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Ethyl alcohol	64-17-5	95-100%
Denatonium benzoate	3734-33-6	<1%
Methyl isobutyl ketone	108-10-1	<1%
Non-hazardous ingredients	Proprietary	Balance

## 4. FIRST AID MEASURES

## Description of first aid measures

Poisons Information Center, Australia: 13 11 26 **Emergency telephone number** 

Poisons Information Center, New Zealand: 0800 764 766

Inhalation Remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms

persist, call a physician.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth thoroughly with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water.

Get medical attention.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** Vapors may cause drowsiness and dizziness.

## Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** 

Suitable Extinguishing Media Alcohol resistant foam is the preferred firefighting medium but, if it is not available, fine

water spray or water fog can be used.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Highly flammable. Keep product and empty container away from heat and sources of ignition. May form flammable vapour mixtures with air. Flash back possible over

considerable distance. Thermal decomposition can lead to release of irritating and toxic

gases and vapors.

Hazardous combustion products Carbon oxides.

Special protective actions for fire-fighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

Hazchem code 2YE

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Remove all sources of ignition. Do not eat, drink or smoke

when using this product. Wear protective gloves/protective clothing and eye/face protection.

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills. Contain

and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to local /

national regulations (see Section 13).

Methods for cleaning up

Avoid breathing dust or spray mist. Use personal protective equipment as required. Prevent

product from entering drains. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use clean non-sparking tools to collect absorbed

material.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate

ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond all lines and equipment associated with product

system. All equipment should be non-sparking and explosion proof.

**General hygiene considerations** Avoid breathing vapors or mists. Avoid contact with skin, eyes, and clothing. Do not eat,

drink or smoke when using this product. Wear suitable gloves and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** Oxidizing agents. Acids. Strong bases.

Poisons Schedule (SUSMP) 5

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Exposure Limits

No value assigned for this specific material by Safe Work Australia. However, Workplace

Exposure Standard(s) for constituent(s):

Chemical name	Australia	ACGIH TLV
Ethyl alcohol	$8hr TWA = 1880 mg/m^3 (1000 ppm)$	
64-17-5	-	
Methyl isobutyl ketone	50 ppm	STEL: 75 ppm
108-10-1	205 mg/m <sup>3</sup>	TWA: 20 ppm
	75 ppm STEL	
	307 mg/m <sup>3</sup> STEL	

Chemical name	Australia	ACGIH
Methyl isobutyl ketone	-	1 mg/L
108-10-1		

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

STEL (Short Term Exposure Limit) - the airborne concentration of a particular substance calculated as a time-weighted average over 15 minutes, which should not be exceeded at any time during a normal eight hour work day. According to current knowledge

this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

#### **Appropriate engineering controls**

**Engineering controls**Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

#### Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR.







**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin and body protection Overalls.

Hand protection Impervious gloves.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required. If determined by a risk assessment an inhalation risk exists, wear an organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Environmental exposure controls** No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical stateLiquidAppearanceClearColorColourless

Odor Characteristic Alcohol
Odor threshold No information available.

Property Values Remarks • Method

pHNo data availableNone knownpH (as aqueous solution)No data availableNone known

Melting point / freezing point -117°C

Boiling point / boiling range 78°C

Flash point 11 - 13°C None known

Evaporation rateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive 19%

limits

Lower flammability or explosive 3.5%

limits

Vapor pressure 5.8 kPa @ 20°C

Vapor density 1.59
Relative density 0.79 - 0.81
Water solubility Soluble in water

Water solubilitySoluble in waterNone knownSolubility(ies)No data availableNone knownPartition coefficientNo data availableNone known

Autoignition temperature 392°C

Decomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other information

## 10. STABILITY AND REACTIVITY

Reactivity

**Reactivity** Reacts with strong oxidising agents.

**Chemical stability** 

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

**Conditions to avoid** 

**Conditions to avoid** Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible materials** 

**Incompatible materials** Oxidizing agents. Acids. Strong bases.

**Hazardous decomposition products** 

Hazardous decomposition products None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Information on likely routes of exposure

**Product Information**No adverse health effects expected if the chemical is handled in accordance with this

Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the

chemical is mishandled and overexposure occurs are:

Inhalation May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Causes serious eye irritation. Eye contact

Skin contact May cause irritation. Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May cause Ingestion

central nervous system depression.

**Symptoms** Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting.

#### Numerical measures of toxicity - Product Information

No information available.

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl alcohol	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
Denatonium benzoate	= 584 mg/kg (Rat)	-	-
Methyl isobutyl ketone	= 2080 mg/kg (Rat)	= 3000 mg/kg ( Rabbit )	2000 - 4000 ppm (Rat) 4 h

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Causes mild skin irritation.

Causes serious eye irritation. Serious eye damage/eye irritation

Respiratory or skin sensitization No information available.

No information available. Germ cell mutagenicity

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	Australia	
Methyl isobutyl ketone - 108-10-1	Carc. 2	

Reproductive toxicity No information available. No information available. STOT - single exposure No information available. STOT - repeated exposure **Aspiration hazard** No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

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Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethyl alcohol	-	LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 13400 - 15100mg/L (96h, Pimephales promelas)	-	LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna) EC50: =10800mg/L (24h, Daphnia magna)
Methyl isobutyl ketone	EC50: =400mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 496 - 514mg/L (96h, Pimephales promelas)	-	EC50: =170mg/L (48h, Daphnia magna)

Persistence and degradability

Persistence and degradability Biodegradable.

Bioaccumulative potential

**Bioaccumulation** This chemical shows a low bioaccumulation potential.

**Component Information** 

Chemical name	Partition coefficient
Ethyl alcohol	-0.32
Methyl isobutyl ketone	1.19

**Mobility** 

Mobility in soil Mobile.

Other adverse effects

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with

**products** environmental legislation.

**Contaminated packaging** Dispose of contents/containers in accordance with local regulations.

## 14. TRANSPORT INFORMATION

<u>ADG</u>

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and

Rail; DANGEROUS GOODS.

UN number 1170

Proper shipping name ETHANOL (ETHYL ALCOHOL)

Hazard class 3
Packing group II
Hazchem code 2YE

IATA

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air: DANGEROUS GOODS.

UN number 1170

UN proper shipping name ETHANOL (ETHYL ALCOHOL)

3 Transport hazard class(es) Ш Packing group

**IMDG** 

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

**UN** number 1170

**UN proper shipping name** ETHANOL (ETHYL ALCOHOL)

Transport hazard class(es) Packing group Ш **IMDG EMS Fire** F-E **IMDG EMS Spill** S-D

## 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **National regulations**

#### Australia

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

See section 8 for national exposure control parameters

#### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

Poisons Schedule (SUSMP)

## National pollutant inventory

Subject to reporting requirement

Chemical name	National pollutant inventory
Ethyl alcohol - 64-17-5	10 tonne/yr Threshold category 1
Methyl isobutyl ketone - 108-10-1	10 tonne/yr Threshold category 1

## **International Inventories**

**AIIC** All the constituents of this material are listed on the Australian Inventory of Industrial

Chemicals.

- Australian Inventory of Industrial Chemicals

#### **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

## 16. OTHER INFORMATION

Supplier Safety Data Sheet 11/2016

Reason(s) For Issue: First Issue Primary SDS

25-Aug-2021 **Issuing Date:** 

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

#### **Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

#### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Skin designation

Carcinogen C

#### Key literature references and sources for data used to compile the SDS

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian Industrial Chemicals Introduction Scheme (AICIS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

#### **Disclaimer**

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Liquimix Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Liquimix representative or Liquimix Pty Ltd at the contact details on page 1.

Liquimix Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

**End of Safety Data Sheet**