

SAFETY DATA SHEET



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Disclaimer:

CHESSER CHEMICALS Pty Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

Product: METHYLATED SPIRITS

HAZARDOUS according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals

SIGNAL WORD: DANGER



 **Emergency Response No: 1800 039 008**

RECOMMENDED PPE



Health hazards

H225	Highly Flammable liquid and vapour
H319	Causes serious eye irritation

**1 IDENTIFICATION****IDENTIFICATION**

Product Code: MSP
 Product Name: METHYLATED SPIRITS
 Other Names: Denatured alcohol; Ethyl Alcohol
 Product Use: As a solvent
 Restrictions on use: Use according to Directions; avoid naked flames; use in well ventilated area.

COMPANY DETAILS

Company: CHESSER CHEMICALS Pty Ltd
 ABN Number: 67 008 262 039
 Address: 124 Days Road
 FERRYDEN PARK SA 5010
 Telephone Number: (08) 8406 0000
 Facsimile Number: (08) 8406 0099
 Emergency Telephone Number: CHEMWATCH 1800 039 008

Other Information: This information summarises our best knowledge on the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

2 HAZARD IDENTIFICATION

HAZARDOUS according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals

Classification of the substance or mixture:

Flammable Liquid - Category 2
 Eye Damage/Irritation - Category 2A

SIGNALWORD:**DANGER**

Flame



Exclamation Mark

Hazard Statements**Physical hazards**

H225 Highly Flammable liquid and vapour.

Health hazards

H319 Causes serious eye irritation

Environmental hazards**Precautionary statements****General precautionary statements**

P102 Keep out of reach of children
 P101 If medical advice is needed, have product container or label at hand
 P103 Read label before use

Prevention precautionary 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/ventilation/lighting equipment
 P242 Use only non-sparking tools
 P243 Take precautionary measures against static discharge
 P264 Wash thoroughly after handling
 P280 Wear protective gloves/eye protection/face protection

**Response precautionary statements**

P303 + P361 + P353	IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse. 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 foam/water spray/fog for extinction

Storage precautionary statements

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

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Poisons Schedule (SUSMP): 5**3 COMPOSITION****Ingredients**

Chemical Entity	CAS Number	Proportion	Risk Phrases
Ethanol	[64-17-5]	95%	H225 H302/H332, H319
Water	[7732-18-5]	5%	

4 FIRST AID MEASURES**Description of necessary measures according to routes of exposure**

Swallowed	Rinse mouth with water. Give water to drink. Do NOT induce vomiting. Seek medical attention immediately.
Eye	Immediately flush eyes with plenty of water for 15 minutes, while holding eyelids open. Seek medical attention immediately.
Skin	Remove contaminated clothing and shoes after wetting with water. Wash affected area with soap and plenty of water. Seek medical attention if required. For burns, immerse affected area in cold water to 10-15 minutes. Bandage lightly with a sterile dressing. Seek medical attention if required.
Inhaled	Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

Advice to Doctor Treat symptomatically based on individual reactions of patient and judgement of doctor.

Medical Conditions Aggravated by Exposure Low to moderate toxicity: Irritant. This product has the potential to cause adverse health effects with chronic overexposure. Chronic ingestion may result in cirrhosis of the liver. Over exposure may cause central nervous system depression.

5 FIRE FIGHTING MEASURES

Flammability Conditions	Product is a flammable liquid, Explosive Vapour.
Extinguishing Media	In case of fire, appropriate extinguishing media include water fog or foam. Use water fog to cool intact containers and nearby storage areas.
Hazardous Products of Combustion	Flammable liquid Vapours are heavier than air and may travel to an ignition source and flash back. Vapours can spread along the ground and collect in low or confined areas. Vapours form explosive mixtures with air. Toxic gases may be evolved when heated to decomposition, including carbon oxides and hydrocarbons.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire area of all nonemergency personnel. Stay upwind. Keep out of low areas where gases or fumes can accumulate. Do not use direct water stream. Eliminate ignition sources.
Flash Point	13 °C
Lower Explosion Limit	3.3 %
Upper Explosion Limit	19.0 %
Auto Ignition Temperature	No Data Available
Hazchem Code	●2YE

6 ACCIDENTAL RELEASE MEASURES

General Response Procedure	Personnel involved in the clean up should wear full protective clothing. Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.
Clean Up Procedures	Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated collect material, transfer to suitable, labelled, dry chemical-waste containers and dispose of promptly as hazardous waste.

7 HANDLING AND STORAGE

Handling	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Earth containers when dispensing fluids. Avoid contact with eyes, skin and clothing. Do not inhale product vapours.
Storage	Store in a cool, dry, well-ventilated, fire-proof area. Keep containers tightly sealed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Ground and bond storage containers. Store away from incompatible materials including oxidizing agents, acids, alkalis, heat and ignition sources. Protect from direct sunlight and static charges. Keep out of reach of children. Store at ambient temperature. This product has a UN Classification of 1170 and a Dangerous Goods Class 3 (flammable) according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.
Container	Packaging must comply with requirements of Hazardous Substances (Packaging) Regulations 2001. Store in original packaging as approved by manufacturer. NOTE: Use approved 'flammable liquid' storage containers.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

General	No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC), however, the following information on constituents is: ETHANOL: ES - TWA : 1000ppm (1880mg/m ³) WES - TWA : 1000 ppm (1880mg/m ³) METHANOL: ES - TWA : 200ppm (262mg/m ³) ES - STEL :250 ppm (328mg/m ³) WES - TWA : 200ppm (262mg/m ³) NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.
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Exposure Limits No Data Available

Biological Limits No information available on biological limit values for this product.

Engineering Measures A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Use an explosion proof exhaust ventilation system. Maintain vapour levels below the recommended exposure standard.

Personal Protection Equipment

RESPIRATOR: Wear an approved respirator with suitable filter for organic gases and vapours (Type A) if engineering controls are inadequate (AS1715/1716).

EYES: Chemical goggles to prevent splashing in the eyes (AS1336/1337).

HANDS: Nitrile or neoprene rubber gloves (AS2161).

CLOTHING: Flame-retardant coveralls and anti-static footwear (AS3765/2210).

Work Hygienic Practices No Data Available



9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Liquid
Odour	No Data Available
Colour	Clear
pH	No Data Available
Vapour Pressure	5.9kPa (20°C) torr (@ 20 °C)
Relative Vapour Density	No Data Available
Boiling/Melting Point	78 °C
Solubility	Complete
Freezing Point	No Data Available
Specific Gravity	0.79 g/cm ³ (20 °C)
Flash Point	13 °C
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	No Data Available
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No Data Available
Potential for Dust Explosion	Product is a liquid.
Fast or Intensely Burning Characteristics	No Data Available
Flame Propagation or Burning Rate of Solid Materials	No Data Available
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No Data Available
Properties That May Initiate or Contribute to Fire Intensity	No Data Available
Reactions That Release Gases or Vapours	No Data Available
Release of Invisible Flammable Vapours and Gases	No Data Available

10 STABILITY AND REACTIVITY

Chemical Stability	Product is stable under directed conditions of use, storage and temperature. Flammable liquid.
Conditions to Avoid	Avoid excessive heat, direct sunlight, moisture, freezing, static charges and high temperatures.
Materials to Avoid	Incompatible materials include oxidizing agents, acids, alkalis, heat and ignition sources.
Hazardous Decomposition Products	Toxic gases may be evolved when heated to decomposition, including carbon oxides and hydrocarbons.
Hazardous Polymerisation	No Data Available

11 TOXICOLOGICAL INFORMATION

General Information

ETHANOL:	Oral LD ₅₀ Rat : 3450mg/Kg	Inhalation	LC ₅₀ Rat : 2000ppm/10 hours
METHANOL:	Oral LD ₅₀ Rat : 5628mg/Kg	Dermal	LD ₅₀ Rabbit : 15800mg/Kg
	Inhalation LC ₅₀ Mouse : 50g/m ³ /2 hours		

Eye Irritant	Irritating to eyes. Exposure may result in lacrimation, irritation, pain, and redness.
Ingestion	Harmful if swallowed. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain, diarrhoea, headache, dizziness, and drowsiness with large doses. Liver damage may occur with high level of chronic ingestion.
Inhalation	Harmful if inhaled. Irritating to respiratory system. Inhalation may cause irritation to the respiratory system, nose and throat irritation with coughing and headache. Over exposure may result in nausea, dizziness, and drowsiness.



Skin Irritant Irritating to skin. Prolonged contact may result in drying and defatting of the skin, rash and dermatitis. Toxic effects may result from skin absorption.

Carcinogen Category 0

12 ECOLOGICAL INFORMATION

Ecotoxicity Ethanol: If spilled on soil, ethanol will either evaporate or leach into the ground due to the relatively high vapour pressure and low absorption in soil. It will biodegrade, probably to acetic acid and formaldehyde.

Ethanol will volatilise from water and biodegrade, and is not expected to bio-concentrate. It will photo-degrade in air with a half-life ranging from hours (polluted air) to days (clean air).

- Fish Toxicity: LC0 (Golden Ide) >1000mg/L/48hrs.
- Invertebrate Toxicity: EC50 (Daphnia Magna) is >1000mg/L/24hrs.

Methanol: If released into the atmosphere methanol degrades via reaction with photochemically produced hydroxyl radicals. It is expected to biodegrade in both soil and water. If spilt on soil it is expected to be susceptible to significant leaching, as well rapid evaporation from dry surfaces is likely to occur. Chronic aquatic toxicity possible above 32ppm.

Aquatic Toxicity:

- Arthropoda toxicity No effect level (Daphnia) is 10g/L/48hrs.
- Fish Toxicity: TLm (Trout) is 8000mg/L/48hrs.
- Amphibian Toxicity: LDlo (Frog) is 59gm/Kg.

Persistence/Degradability No information available on persistence/degradability for this product.

Mobility No information available on mobility for this product.

Environmental Fate Do NOT let product reach waterways, drains and sewers.

Bioaccumulation Potential No information available on bioaccumulation for this product.

Environmental Impact No Data Available

13 DISPOSAL CONSIDERATIONS

General Information Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill Contact a specialist disposal company or the local waste regulator for advice. This should be done in accordance with 'The Hazardous Waste Act'. This material may be suitable for approved landfill.

14 TRANSPORT INFORMATION

Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

UN No: 1170
Transport Hazard Class: 3 FLAMMABLE
Packing Group: II
Proper Shipping Name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
EPG: 14 Liquids – Highly Flammable
Hazchem or Emergency Action Code: 2[Y]E



Marine Transport

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

UN No: 1170
Transport Hazard Class: 3 FLAMMABLE
Packing Group: II
Proper Shipping Name: ETHANOL SOLUTION. (ETHYL ALCOHOL SOLUTION)
IMDG EMS Fire: F-E
IMDG EMS Spill: S-D
Marine Pollutant: No



Air Transport

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

UN No: 1170
Transport Hazard Class: 3 FLAMMABLE
Packing Group: II
Proper Shipping Name or Technical Name: ETHANOL SOLUTION





15 REGULATORY INFORMATION

Poisons Schedule 5
EPG Guide 14
AICS Name Mixture containing. Ethyl Alcohol

Classification:

This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

Classification of the substance or mixture:

Flammable Liquid - Category 2
 Eye Damage/Irritation - Category 2A

Hazard Statement(s):

H225 Highly Flammable liquid and vapour.

Health hazards

H319 Causes serious eye irritation

16 OTHER INFORMATION

Literature References No data available.

Sources for Data No data available.

Legend to Abbreviations and Acronyms

< less than
 > greater than
AICS Australian Inventory of Chemical Substances
CAS Chemical Abstracts Service (Registry Number)
cm² square centimetres
CO₂ Carbon Dioxide
COD Chemical Oxygen Demand
deg C (°C) degrees Celsius
ERMA Environmental Risk Management Authority
G gram
g/cm³ grams per cubic centimetre
g/l grams per litre

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals

Ltr Litre
m³ cubic metre
mbar millibar
mg milligram
mg/24H milligrams per 24 hours
mg/kg milligrams per kilogram
mg/m³ milligrams per cubic metre
Misc miscible
Miscible liquids form one homogeneous liquid phase regardless of the amount of either component present

mm millimetre
mPa.s milli Pascal per second

HSNO Hazardous Substance and New Organism
IDLH Immediately Dangerous to Life and Health
Immiscible liquids are insoluble in each other
Kg kilogram
kg/m³ kilograms per cubic metre
LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

N/A Not Applicable
NOHSC National Occupational Health and Safety Commission
OECD Organization for Economic Co-operation and Development
PEL Permissible Exposure Limit
ppb parts per billion
ppm parts per million
ppm/2h parts per million per 2 hours
ppm/6h parts per million per 6 hours
RCP Reciprocal Calculation Procedure
STEL Short Term Exposure Limit
TLV Threshold Limit Value
tne tonne
TWA Time Weighted Average
ug/24H micrograms per 24 hours
UN United Nations (number)
Wt weight

Date Prepared: Thursday 27th June 2019 Version: 1.1 Supersedes: July 2014

5 year review and GHS updates

Remove TQCSI Logo from Header

Remove H Statement

H302/332

Harmful if swallowed or if inhaled.

Replace

HAZARDOUS according to Safe Work Australia

DANGEROUS GOODS according to the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail

with

HAZARDOUS according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals



SAFETY DATA SHEET

Page 8 of 8
Product: **METHYLATED SPIRITS**
Issued: June 2019

CHESSERCHEMICALS

Remove SIGNAL WORD **WARNING** *have only one SIGNAL WORD*
Remove Classification Swallowed - Acute Toxicity 4



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