

FOR FURTHER INFORMATION, PLEASE REFER TO THE SDS

Issue: October 20

PRODUCT: Ethyl Acetate

Other Names: Acetic acid ethyl ester, Vinegar Naphtha, Ethyl Ethanoate

Uses: Industrial Solvent

Signal Word: DANGER

UN No.	1173
Dangerous Goods Class	3
Subsidiary Risk	None
Pack Group	II
Hazchem	•3YE
Poison Schedule	None

Hazardous Nature:	This product is classified as hazardous under GHS for Australia criteria
Hazardous Classification:	Flammable Liquids: 2; Serious Eye Damage/Irritation: 2A; Specific Target Organ Toxicity (Single Exposure - Narcotic Effects): 3
Hazardous Statement:	Highly Flammable liquid and vapour
Exposure Standards:	TWA: 720 mg/m ³ (200 ppm); STEL: 1440 mg/m ³ (400 ppm)

Physical Characteristics (Typical)

Section 9 of SDS

Appearance	Clear, colourless liquid
Boiling Point/ Range (°C):	77
Flash Point (°C):	-4
Specific Gravity/ Density (g/ml @ 20°C):	0.90
Chemical Stability:	Stable at room temperature and pressure

Product Ingredients

Section 3 of SDS

Ethyl Acetate	141-78-6	≥99.5
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For further ingredients information, please refer to the full SDS.

GHS Pictograms

Section 2 of SDS



For further Risk and Safety information, please refer to the full SDS.

DEFINITIONS

Dangerous Goods	Products that are classified as Dangerous for Storage and Transport: these products are allocated a UN No., with accompanying Class, Pack Group, and Sub. Risk, if required. Products that do not have a specific description under the code, but have low flash points, or such, must be classified under their most significant risk, eg. Flammable Goods N.O.S. (Not otherwise specified), UN 1993
Poisonous Substance	Products that are classified under the poisons schedule are a poisonous substance. The proportion of the poison in the product will determine its numerical classification.
Hazardous Substance	Products are considered to be Hazardous if they pose an intrinsic risk to human or environmental health, such as mutagens (able to change DNA), teratogens (able to result in birth defects), carcinogens (able to generate cell abnormalities), etc. Materials are not hazardous substances if they pose risks such as potential for misuse, like flammability, or explosions when heated and ignited.

1. IDENTIFICATION

Product Name:	Ethyl Acetate
Other Names:	Acetic acid ethyl ester, Vinegar Naphtha, Ethyl Ethanoate
Chemical Family:	Acetate
Recommended Use:	Industrial Solvent
Supplier:	Sydney Solvents Pty Ltd
ABN:	51 104 642 695
Street Address:	Unit 3, 10 Production Place, Jamisontown NSW 2750
Telephone:	02 4722 5060
Fax:	
Emergency phone:	CHEMCALL: 1800 605 040
All other inquiries:	02 4722 5060

2. HAZARDS IDENTIFICATION**Hazardous Nature**

This product is classified as hazardous under GHS for Australia criteria

Hazardous Classification

Flammable Liquids: 2; Serious Eye Damage/Irritation: 2A; Specific Target Organ Toxicity (Single Exposure - Narcotic Effects): 3

Hazardous Statement

Highly Flammable liquid and vapour

GHS Pictograms**Hazard Statements**

H225: Highly flammable liquid and vapour

H319: Causes serious eye irritation

H336: May cause drowsiness or dizziness

AUH066: Repeated exposure may cause skin dryness or cracking

Precautionary Statements

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.

P261: Avoid breathing dust/fume/ gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312: Call a POISON CENTER or doctor/ physician if you feel unwell

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P337+313: If eye irritation persists get medical advice/attention.

P370+378: In case of fire: use dry chemical, carbon dioxide or alcohol resistant foam to extinguish

P403+235: Store in a well ventilated place. Keep cool. P405: Store locked up

Dangerous Goods Classification 3

Poisons Schedule None

Signal Word DANGER

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%v/v)
Ethyl Acetate	141-78-6	≥99.5

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

Ingestion

If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

Eye Contact

Flush eyes with large amounts of water until irritation subsides. Seek immediate medical attention.

Skin Contact

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

Inhalation

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Seek immediate medical attention.

First Aid facilities

Provide eye baths and safety showers.

Medical Attention

Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing firefighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media

Dry chemical, carbon dioxide or foam

Hazards from combustion products

Carbon monoxide and carbon dioxide

Precautions for fire fighters and special protective equipment

Full protective clothing and self-contained breathing apparatus

Hazchem Code: •3YE

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment

Major Land Spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard.
- Prevent liquid from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.

- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled liquid with sand or earth.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”

Major Water Spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”.

7. HANDLING AND STORAGE**Precautions for safe handling**

This product is flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Material will accumulate static charge. Use grounding leads to avoid discharge (electrical spark).

Conditions for safe storage

Store in a cool, dry place away from direct sunlight. Do not pressurise, cut, heat or weld containers - residual vapours are flammable. This product is flammable and will fuel a fire in progress.

Incompatible materials

Natural rubbers, polystyrene, vinyl plastics, EDPM, metal alkyl oxide, metal hydride, inorganic peroxide, nitrate and halogens, oxyacid salts.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION**National Exposure Standards**

The time weighted average concentration (TWA) for this product is: 720 mg/m³ (200 ppm), which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short-term exposure limit (STEL) is: 1440 mg/m³ (400 ppm), which is the maximum allowable exposure concentration at any time. Products may be identified as skin sensitisers, indicated as (Sen), which means that the product will induce ever-increasing adverse effects with subsequent exposure, such as loss of feeling in extremities, or pain or irritation on contact with the product. Where (Sk) appears, the product will be easily absorbed to the skin, risking overexposure and symptoms similar to Ingestion or Inhalation. applies in this case. Refer: Section 11: Toxicological Effects.

Biological limit values

Not available

Engineering Controls: Ventilation

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

Personal Protective Equipment

Respiratory Protection: Where concentrations in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type “A” filter material is considered suitable for this product.

Eye Protection: Always use safety glasses or a face shield when handling this product.

Skin/ Body Protection: Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves (e.g. PVC) be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear, colourless liquid
Boiling Point/ Range	°C	77
Flash Point	°C	-4
Density @ 20°C	g/ml	0.90
Vapour Pressure @ 20°C	kPa	10 mPa
Explosive Limits (LEL – UEL)	%	2.2 – 11.5
Vapour Density @ 20°C	-	3.0 (Air = 1)
Autoignition Temperature	°C	427
Viscosity @ 20°C	cSt	Not available
Percent Volatiles	%	100
Solubility with Water	% w/w	Insoluble

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

10. STABILITY AND REACTIVITY

Chemical Stability

Stable at room temperature and pressure

Conditions to avoid

Sources of heat and ignition, open flames.

Hazardous decomposition products

Carbon monoxide, carbon dioxide, and other organic compounds on incomplete burning or oxidation

Hazardous reactions

May cause a fire in contact with metal alkoxides

Hazardous Polymerisation

Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

Material has low oral toxicity. Swallowing can result in nausea, vomiting, headache, drowsiness, and dizziness.

Eye Contact

Vapour and liquid are eye irritants. Symptoms include redness, swelling and temporary corneal damage.

Skin Contact

Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Inhalation

Vapour may be irritating to mucous membranes and respiratory tract. Inhalation of high concentrations can produce central nervous system depression including impaired judgement, loss of coordination, dizziness, nausea, and if exposure is prolonged, loss of consciousness

Chronic Effects

Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Other Health Effects Information

Individuals with pre-existing skin or respiratory conditions may be sensitive to this product.

Toxicological Information

LD₅₀ (oral, rat): 5620 mg/kg

LC₅₀ (inhalation) 29.3-58.6 mg/L

12. ECOLOGICAL INFORMATION**Ecotoxicity****Aquatic Toxicity**

Fish Toxicity (rainbow trout, goldfish, bluegill): LC₅₀: 328 mg/L/96 h

Daphnia Magna EC₅₀ (24 hr): LC₅₀: 175 mg/L

Blue-green algae (Toxicity threshold 7-8 days): LOEC: 150 mg/L

Green algae (Toxicity threshold 7-8 days): LOEC: 550 mg/L

Persistence/ degradability

Volatilises in air. Readily biodegradable

Mobility

Oil/ water partition coefficient: log P = 0.66- 0.73; ThOD (Theoretical Oxygen Demand): 1.82

13. DISPOSAL CONSIDERATIONS**Disposal Methods**

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 fumes and vapours that are flammable and harmful. 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.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	1173	UN No.	1173	UN No.	1173
Proper Shipping Name	ETHYL ACETATE	Proper Shipping Name	ETHYL ACETATE	Proper Shipping Name	ETHYL ACETATE
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	•3YE	Hazchem	•3YE	Hazchem	•3YE

Dangerous Goods Segregation

This product is classed as Dangerous Goods Class 3, packing group II. Please consult the Australian Dangerous Goods Code for Transport by Road and Rail for information.

15. REGULATORY INFORMATION

Country/ Region: Australia

Inventory: AICS

Status: Listed

Poisons Schedule: None

16. OTHER INFORMATION

Reasons for Issue: 5 year review and update. GHS classification and hazard statements updated.

Abbreviations:

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

NOHSC: National Occupational Health and Safety Council

References:

- Supplier Safety Data Sheets
- <http://chem.sis.nlm.nih.gov/chemidplus> (October 20)
- <https://www.nicnas.gov.au/> (October 20)
- OECD eChemPortal Substance Search
<https://www.echemportal.org/echemportal/participant/page.action?pageID=9>

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Australasian Solvents and Chemicals Company Pty. Ltd.