

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product Name: Ethyl Acetate

Other Names: **Ethyl Ethanoate**

Recommended Use: Solvent for resin, lacquers, wax, printing ink, adhesives, plastics and polishes

agent. Raw material for used in the chemical industry such as paints, rubbers,

plastic, cosmetics, pharmaceuticals, and dehydrate agents.

Supplier: Global Chemie ASCC Limited

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2. HAZARDS IDENTIFICATION

Health Hazard Classification

This product is classified as hazardous under GHS criteria

Hazard Categories

Flammable liquids: Category 2 Eye irritation: Category 2

Specific target organ toxicity following single exposure: Category 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.

Precautionary Statements

P210: Keep away from heat/sparks/open flames/hot surfaces and non-smoking.

P233: Keep container tightly closed.

P240: Ground/Bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measure against static discharge.

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

P264: Wash thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

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

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Response

If on skin

P303+P361+P353: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370+P378: In case of fire: Use manufacturer/supplier or the competent authority to specify appropriate media for extinction.

If in eye

P305+P351+P338: 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.

If inhaled

P304+P340: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P235: Keep cool.

P405: Store locked up.

Disposal

P501: Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

Signal Word Danger

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	UN No.	Proportion (%v/v)
Ethyl Acetate	141-78-6	1173	≥ 99.5

Molecular Formula: CH₃COOCH₂CH₃ Molecular Weight: 88.1 g/mol

4. FIRST AID MEASURES

For advice, contact Ramathibodi Poison Center (Phone: 1367) or a doctor.

Ingestion

Do not induce vomiting; Do not eat milk and castor oil, transport to nearest medical facility for additional treatment.

Eye Contact

Immediately flush eyes with large amounts of water for at least 10 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.

Skin Contact

Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available.

Inhalation

Remove to fresh air. If the victim has difficulty breathing or tightness of the chest, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

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.

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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

Water spray or fog (do not use a solid water stream as it may scatter or spread fire), Dry chemical powder, Alcohol-resistant foam, and Carbon dioxide.

Hazards from combustion products

May produce toxic fumes of carbon monoxide, carbon dioxide if burning.

Precautions for fire fighters and special protective equipment

Keep adjacent containers cool by spraying with water. Wear full protective clothing and self-contained breathing apparatus.

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

Protective Measures

- Observe all relevant local and international regulations.
- Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see chapter 8 this Material Safety Data Sheet. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
- Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Clean-Up Methods

◆ Small spillage (< 200 LT) Transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

large spillage (> 200 LT) Transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Other Information

Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin, eyes, and clothing. Do not breathe vapours. Extinguish any naked flame. Remove ignition sources. Avoid sparks. Do not smoke. The vapour is heavier than air spreads along the ground and distant ignition is possible. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not use compressed air for filling, discharging, or handling operations. Handle and open container with care in well-ventilated area. Do not empty into drains.

Conditions for safe storage

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Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Bulk storage tanks should be diked (bunded). Keep away from aerosols, flammables, oxidizing agents, corrosives. Storage Temperature: Ambient.

Incompatible materials

Strong oxidizing agents, strong acids and strong alkalis.

Recommended Materials

For containers, or container linings use mild steel, stainless steel.

Product Transfer

Keep containers closed when not in use. Do not use compressed air for filling, discharging, or handling operations. If positive displacement pumps are used, these must be fitted with a non-integral pressure relief valve. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Additional Advice

Containers even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

National Exposure Standards

Occupational Exposure Limits

TLV-TWA = 400 ppm (1,440 mg/m3) 8 Hours.

Engineering Controls: Ventilation

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value.

Personal Protective Equipment

Respiratory Protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Eye Protection: Chemical splash goggles (chemical monogoggles).

Skin/ Body Protection: Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

Hand Protection: Butyl rubber gloves, Nature rubber gloves, Neoprene rubber gloves, Nitrile rubber gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of Measurement	Typical Value			
Appearance	-	Colorless Liqiud			
Odour	-	Characteristic Sweetish			
рН	-	No data available			
Boiling point	°C	77.2			
Melting point	°C	-84			
Flash point	°C	-4			
Autoignition Temperature	°C	460			
Decomposition Temperature	°C	No data available			
Lower/Upper Flammability Limits	%V	2.1-11.5			
Density @ 20°C	g/cm³	0.900-0.903			
Specific Gravity @ 20°C	-	0.901-0.904			

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Property	Unit of Measurement	Typical Value
Viscosity @ 20°C	mm²/s	No data available
Vapor pressure	kPa	9.8
Vapor density	kPa (Air = 1)	3
Evaporation Rate	(n-Butyl acetate = 1)	4.2
Water Solubility	g/100ml	7.9
Solubility in other solvents Partition coefficient	(n-octanol/water)	No data available
Coefficient of Thermal Expansion	per Deg °C	No data available

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 under normal conditions.

Conditions to avoid

Heat, flame, spark and other ignition sources.

Hazardous decomposition products

Thermal decomposition is highly dependent on conditions. Carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation. May form explosive peroxides.

Hazardous reactions

None known.

Hazardous Polymerisation

No.

Chemical Reactivity

Stable under normal conditions.

Materials to Avoid

Strong oxidizing agents, strong acids and strong alkalis.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD₅₀ Acute oral toxicity
 LD₅₀ Acute dermal toxicity
 5,620 mg/kg (rat)
 >20 ml/kg (rabbit)

◆ LC₅₀ Acute Inhalation Toxicity : 45,000 ppm/mg/m³ (rat)

Ingestion

Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema. Ingesting large amounts of this product will result in headaches, nausea, dizziness, and tracheal burning.

Eye Contact

Irritating to eyes.

Skin Contact

Irritating to skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

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Inhalation

Inhalation of vapours or mists may cause irritation to the respiratory system.

Carcinogenicity

No data available.

Chronic Effects

Checks into the substance have so far not disclosed any investigations concerning possible teratogenic effects.

Other Health Effects Information

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Toxicity

: $LC_{50} > 100 \text{ mg/l}$ • Fish : Low toxicity

: EC50 > 2,306 mg/l/24 h. • Daphnia : Low toxicity

Mobility

Dissolves in water. If product enters soil, it will highly mobile and may contaminate groundwater.

Persistence / Degradability

Readily biodegradable.

Bio-accumulation

Not expected to bioaccumulate significantly.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Material Disposal

Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classifications and disposal methods in compliance with applicable regulations.

Container Disposal

Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Refer to Section 7 before handling the product or containers. Residues may cause an explosion hazard. Do not puncture, cut or weld unclenaed drums. Send to drum recovered or metal reclaimer.

Local Legislation

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN. Number	1173	UN. Number	1173	UN. Number	1173
Class/Item	3	Class/Item	3	Class/Item	3
Hazard Symbol	Flammable Liquid	Hazard Symbol	Flammable Liquid	Hazard Symbol	Flammable Liquid
Proper Shipping Name	Ethyl Acetate	Proper Shipping Name	Ethyl Acetate	Proper Shipping Name	Ethyl Acetate
Packing Group	П	Packing Group	П	Packing Group	II
		Marine Pollutant	No		

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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

EC Label Name : Ethyl Acetate
EC Classification : Highly Flammable

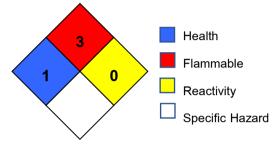
EINECS (EC) : 205-500-4 EC Annex I Number : 607-022-00-5

MITI (Japan) : 2-726

16. OTHER INFORMATION

National Fire Protection Association

(USA)



SDS Distribution The information contained herein is based on our current knowledge of

the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty of guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

Prepared By : Quality Control Department / Global Chemie ASCC Limited

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 (May 24)
- http://hsis.safework.gov.au/SearchHS.aspx (May 24)
- Ecotoxicology data: http://cfpub.epa.gov/ecotox/quick_query.htm (historical)
- Sax's Dangerous Properties of Industrial Materials, Richard J. Lewis Snr., pub. Canada (2000)

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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. No warranty and guarantee are expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product for further information, please contact Global Chemie ASCC Limited.

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