

Effective Date: April 2021
REF NO.:AK21/0073/Ethyl Acetate

ETHYL ACETATE

1. Chemical Product and Company Identification

Product Identification:

Acetic Ester, Acetic Ether, Ethyl Ethanoate

Chemicals Name:

C₄H₈O₂

Other Trade Name:

AIKSOLV EA THINNER, EA, WASHING THINNER

Manufacturer/Supplier:

Aik Moh Paints & Chemicals Pte Ltd
20 TUAS STREET, SINGAPORE 638457
Tel : 6863 1993 Fax : 6863 8033
Website : www.aikmoh.com.sg

2. Hazards Identification

GHS Classification

GHS Label Elements



Signal words: Danger

Physical hazards:

Hazard classification:
H225 - Highly flammable liquid and vapour

Health hazards:

Hazard classification:
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Precautionary Statement(s):

Prevention

- 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/ventilating/lighting/.../equipment.
- P242 - Use only non-sparking tools.
- P261 - Avoid breathing 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/protective clothing/eye protection/face protection.

Response

- P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P370 + P378 - In case of fire: Use suitable extinguishing media for extinction. (Refer to MSDS Section 5)

Storage

P403 + P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.

Disposal

P501 - Dispose of contents/container to an approved waste disposal plant.

3. Composition Information on Ingredients

CAS number	: 141-78-6
Health hazardous components	: Ethyl Acetate
Proportion	: 99.5%

4. First-Aid Measures

Inhalation

Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given if necessary. If sign and symptoms of toxicity persist, call a physician.

Skin contact

Flush with large amounts of water; use soap if available.
Remove grossly contaminated clothing, including shoes and laundry before reuse.

Eye contact

Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

Ingestion

If swallowed, DO NOT induce

5. Fire Fighting Measures

Fire fighting procedures

Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect men attempting to stop a leak.
Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical or CO₂. Try to cover liquid spills with foam.

Special fire precautions

Avoid spraying water directly into storage containers due to danger of boil over.
See also Section 4 "First Aid Measures" as well as Section 10 "Stability And Reactivity".

6. Accidental Release Measures

Land spill

Eliminate sources of ignition. Warn occupant of downwind areas of fire and explosion hazard. Prevent liquid from entering sewers, watercourses or low areas.
Keep public away. Shut off source if possible to do so without hazard. Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation. Take measures to minimize the effect on the ground water.
Contain spilled liquid with sand or earth.

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Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. If liquid is too viscous for pumping, scrape up with shovels or pails and place in suitable containers for recycle or disposal.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

See Section 4 "First Aid Measures" as well as Section 10 "Stability and Reactivity".

Water spill

Eliminate sources of ignition. Warn occupants and shipping in downwind areas of fire and explosion hazard and request them to stay clear.

Notify port or relevant authority and keep public away. Shut off source if possible to do so without hazard. Confine if possible.

Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies sinking and/or suitable dispersants may be used in non-confined waters.

Consult an expert on disposal of any recovered material and ensure conformity to local disposal regulations.

See also Section 4 "First Aid Measures" and Section 10 "Stability and Reactivity".

7. Handling and Storage

Storage temperature (°C)	: Ambient
Transport temperature (°C)	: Ambient
Loading/unloading temperature (°C)	: Ambient
Storage/transport pressure (kPa)	: Atmospheric
Electrostatic accumulation hazard?	: Yes, use proper grounding procedure

Storage / Handling, general notes

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated place away from incompatible materials.

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.

Material will accumulate static charges, which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.

DO NOT pressurize, cut, heat or weld containers. Empty product containers may contain product residue. DO NOT reuse empty containers without commercial cleaning or reconditioning.

Additional warnings

Container remains hazardous when empty. Continue to observe all precautions.

8. Exposure Controls/Personal Protection

Engineering control measures / ventilation

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

Occupational exposure limits

This product consists of a single substance with the following recognized or recommended value:

TWA: 400 ppm

Personal protection

General advice

The use and choice of personal protection equipment is related to the hazard of the product, the workplace and the way the product is handled. In general, we recommend as a minimum safety precaution that safety glasses with side-shields and work-clothes protecting arms, legs and body be used. In addition, any person visiting an area where this product is handled or processed should at least wear safety glasses with side-shields.

Special advice

Based on and limited to AIK MOH PAINTS & CHEMICALS PTE LTD chemical's experience of this product as such, the following special advice is believed to provide satisfactory protection for the industrial user or handler.

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Respiratory protection

Where concentrations in air may exceed the limits given in this section, it is recommended to use a half face filter mask to protect from overexposure by inhalation. Suitable filter material depends on the amount and type of chemicals being handled in the workplace, but filter material of type "A" or similar may be considered for use.

Hand protection

When handling this product, it is recommended to wear chemical resistant gloves. The choice of suitable protective gloves depends on work conditions and what chemical are handled, but we have positive experience with gloves made of PVA. Note that PVA degrades when in contact with water. Gloves should be replaced immediately if sign of degradation is observed.

Eye protection

See general advice

Skin/body protection

See general advice.

9. Physical and Chemical Properties

These are indicative values only. Please refer also to the product specification sheet.

General Information

Appearance	: Clear, colourless liquid
Odor	: Strong, fruity odor
Solubility in water	: 8.3 g/100ml @ 20°C
Boiling Point	: 77.1°C
Vapor Pressure (38°C)	: 7 kPa
Density (20°C)	: 0.902 kg/dm ³
Vapor Density (101.3kPa/air=1)	: 3.04
Evaporation Rate (n-Bu Acetate =1)	: 4.5

Health, Safety & Environmental Information

Health, Safety & Environmental Information

Flash point	: -4 °C
Auto-ignition temperature	: 427 °C
Explosive limits (in air)	: 2.0 -11.5 vol%

Other Information

Molecular weight	: 88.11
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10. Stability and Reactivity

Stability	: Stable
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Condition to avoid	: Heat, flames, sparks, and other sources of ignition
Incompatibles	: Peroxide, polymerization initiators, oxidizing agent such as nitric acid, perchloric acid, chromium trioxide, chlorosulfonic acid, silica gel, alumina, strong acids or amines.
Hazardous decomp. Products	: Oxides of carbon

11. Toxicological Information

Acute Exposure

Oral LD₅₀: 5620 – 10170 mg/kg (rats);
Ethyl acetate practically nontoxic to animals by ingestion.

Inhalation LC₅₀: 200 mg/l (rats, 1hr);

Inhalation LC₅₀: >29,3 mg/l (rats, 4 hrs);
Ethyl acetate is practically nontoxic to animals by inhalation.
Sedative effects (CNS depression typical of many solvents) have been observed in animals. Mild nose and throat irritation have been reported in human at 400 ppm.

Dermal LD₅₀: >5000 mg/kg (rabbits)
Ethyl acetate was not irritating to rabbit skin. There was no evidence of cumulative skin irritation in human test. Practically nontoxic dermally to animals.

Eye: Liquid mildly to moderately irritating to rabbit eyes in several tests. Vapors at 400 ppm have been reported to cause mild eye irritation to humans.

12. Ecological Information

Environmental mobility

No information found

Environmental degradability

This product biodegrades rapidly and is "readily" biodegradable according to OECD guidelines.
This product can degrade rapidly in air.

Ecotoxicity and bioaccumulation

Expected to be low acute toxicity to aquatic organisms. The product also has low potential to bioaccumulate.

13. Disposal Considerations

The following advice only applies to the product as supplied.
Combination with other materials may well indicate another route of disposal. If in doubt, contact local authorities.
Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.
Care should in any case be taken to ensure compliance with national and local regulations.
This product is not suitable for disposal by either landfill or via municipal sewers, drains, and natural streams or rivers.
This product is ash less and can be burned directly in appropriate equipment.

14. Transport Information

Land:

Sea: IMDG (Packaged goods and BLC's)

Air: (ICAO/IATA)

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Hazard Class : 3
UN No : 1173
Packaging Group : II
Transport Document Name : Ethyl Acetate

15. Regulatory Information

Classification and labeling

Classification/symbol : Highly Flammable/F
Harmful/Xn

Governing directive:

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

16. Other Information

Disclaimer

This information is based on our current knowledge and is intended to describe the product for the only. It should not therefore be construed as guaranteeing any specific property of the product.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of AIK MOH PAINTS & CHEMICALS PTE LTD knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.