



SAFETY DATA SHEET

ETHYL ACETATE

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

Product name: ETHYL ACETATE

Recommended use: Chemical for industrial.

Manufacturer/Supplier: **MODERN CHEMICAL CO.,LTD.**
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2. HAZARDS IDENTIFICATION

Label elements

Pictogram



Signal word

Danger

Hazard statement(s):

- 1.) Highly flammable liquid and vapour.
- 2.) Cause serious eye irritation.
- 3.) May cause drowsiness or dizziness.

Precautionary statement(s):

- 1.) Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- 2.) Keep container tightly closed.
- 3.) Ground/bond container and receiving equipment.
- 4.) Use explosion-proof electrical/ventilating/lighting/equipment.
- 5.) Use only non-sparking tools.



- 6.) Take precautionary measures against static discharge.
- 7.) Avoid breathing dust/fume/gas/mist/vapours/spray.
- 8.) Wash thoroughly after handling.
- 9.) Use only outdoors or in a well-ventilated area.
- 10.) Wear protective gloves/protective clothing/eye protection/face protection.
- 11.) IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 12.) IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 13.) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do
Continue rinsing.
- 14.) Call a POISON CENTER or doctor/physician if you feel unwell.
- 15.) If eye irritation persists. Get medical advice/ attention.
- 16.) Store in a well-ventilated place. Keep container tightly closed.
- 17.) Store in a well-ventilated place. Keep cool.
- 18.) Store locked up.
- 19.) Dispose of contents and container in accordance with local regulational/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym: Acetic acid ethyl ester, acetic ether, vinegar naphtha, ethyl ethanoate

Ingredients	% (w/w)	CAS NO.
ETHYL ACETATE	100	141-78-6

4. FIRST AID MEASURES

- General advice:** Immediately remove any clothing soiled by the product. Show this safety data sheet to the doctor in attendance.
- Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin contact:** Remove contaminated clothing and wash affected skin with soap and water. Consult a physician.
- Eye contact:** If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. Obtain medical attention.



Ingestion: **Do not induce vomiting.** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

carbon dioxide, dry chemical or foam. In the event of fire, cool tanks with water spray.

Unsuitable Extinguishing Media:

Water is useless for extinguishing, but could be used to cool down the container in fire.

Specific hazards arising from Chemicals:

Carbon monoxide and Carbon dioxide.

Special protective equipment for fire-fighters :

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use personal protective equipment. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

Methods and Material for Containment and Clean Up:

Pick up and arrange disposal. Keep in suitable, closed containers for disposal.

7. HANDING AND STORAGE

Precautions for Safe Handling & Product Transfer:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for Safe Storage & Unsuitable Materials:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: No data available

Appropriate Engineering Controls: Safety shower and eye bath.

Individual Protection Measures

Respiratory protection: Use a full-face supplied air respirator.

Hand protection: Wear impervious chemical resistant gloves.

Eye protection: Wear chemical goggles.

Skin and body protection: Protective work clothing.

Hygiene measures: No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

Form, Color and Odor: liquid, colourless, fruity oder	Evaporation rate : N/A
Melting Point: (-84) – (-83.6) °C	Specific gravity : 0.897-0.902 g/cm ³ at 20 °C
pH: N/A	Solubility in water : Slightly Soluble
Boiling point : 77.0 - 77.2 °C	Viscosity : N/A
Vapour pressure: 13.33 kPa at 27 °C	Vapour density: 3.04 g/l (Air = 1)
Lower explosion limits: 2.0 %Vol	Upper explosive limit: 11.5 %Vol
Auto-ignition temperature: 426 °C	Flash point: -4 °C
Odour threshold: N/A	Flammability (solid, gas): N/A
Decomposition temperature: N/A	Solubility in other solvents: Soluble in most organic solvent such as alcohol, ketene, ether and chloroform.
n-octanol/water partition coefficient (log P_{ow}): N/A	

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under ordinary conditions of use and storage.

Reactions: No data available.

Possibility of Hazardous Reactions: Polymerization will not occur.

Conditions to avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight.

Materials to be avoided: Strong oxidizing agents, acids, alkalies

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide.



11. TOXICOLOGICAL INFORMATION

Acute toxicity:	LD50 (Oral, rat): 5620 mg/kg LD50 (Dermal, rabbit): 4940 - >180000 mg/kg LC50 (Inhalation, rat): 5760 mg/m ³ , 45 mg/l -2h
Sensitization:	No data available.
Chonic toxicity:	Respiration of 2000 ppm or 7.2g/m ³ by guinea pig without apparent influence.
Further toxicological information:	Sex chromosome missing or non-disjunction: brewers yeast 24400ppm Cytogenetical analysis : hamster fibroblast 9g/l

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish:	LC50 – Oncorhynchus mykiss: 350-600 mg/l - 96h
Toxicity to daphnia and other aquatic invertebrates:	EC50 - Daphnia magna: 2300-3090 mg/l
Toxicity to algae:	No data available.
Toxicity to bacteria:	No data available.
Biodegradability remark:	No data available.
Bioaccumulative potential:	No data available.
Mobility:	No data available.
Affected in any other way:	No data available.

13. DISPOSAL CONSIDERATIONS

Material Disposal:	Dispose of in a manner consistent with federal, state, and local regulation. Burning method is recommended.
Container Disposal:	Disposal in compliance with official regulations.

14. TRANSPORT INFORMATION

ADR/RID

ADR/RID class: 3 (F1) Flammable liquids.	Danger code (Kemler): 33	UN-Number:1173
Packaging Group: II	Hazard label: 3	
Description of goods: 1173 ETHYL ACETATE		

**IMDG**

IMDG Class: 3 UN-Number: 1173 Packaging group: II

EMS Number: F-E, S-D Label: 3

Proper shipping name: ETHYL ACETATE

IATA

ICAO / IATA Class: 3 UN/ID Number: 1173 Label: 3

Packaging group: II Proper shipping name: ETHYL ACETATE

UN "Model Regulation": UN1173, ETHYL ACETATE, 3, II

15. REGULATORY INFORMATION

Component	CHINA	TSCA	ENCS	EINECS
Ethyl Acetate	✓	✓	✓	✓

Note1:

CHINA – China Inventory of Existing Chemical Substance (IECSC)

TSCA – United States Inventory of Toxic Substances Control Act Chemical Substances (TSCA)

ENCS – Japan Existing and New Chemical Substances (ENCS)

EINECS – European Inventory of Existing Commercial Chemical Substances (EINECS)

Note2:

✓ Indicates that the substances included in the regulations

- That no data or included in the regulations

Regulations on the *Safety Administration of Dangerous Chemicals* (No.344 order by the State Council of People's Republic of China) and other applicable laws and regulation have made regulation on safe production, usage, storage, transportation and carriage on hazardous chemicals.

According to *Classification and Labels of Dangerous Chemicals* (GB 13690-92), it is classified into 3.2, the inflammable liquid in intermediate flash point.

16. OTHER INFORMATION

Modern Chemical Co.,Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensive 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.



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