



Material Safety Data Sheet

1. Product and Company Identification

Product name : **Ethyl Acetate**

Chemical formula : C-H3-C-O2-C2-HS

Synonyms : Acetic Ester; Acetic Ether; Ethyl Ethanoate; Ethyl Acetic Ester; Vinegar Naphtha; Acetic Acid Ethyl Ester; Acetidin

Company : Specialty Gases of America, Inc
6055 Brent Dr.
Toledo, OH 43611

Telephone : 419-729-7732

Emergency : 800-424-9300

2. Composition/Information on Ingredients

Components	CAS Number	% Volume
Ethyl Acetate	141-78-6	100%

3. Hazards Identification

Emergency Overview

May cause respiratory tract irritation, skin irritation, eye irritation, central nervous system depression. Flammable liquid and vapor. Vapor may cause flash fire.

Potential Health Effects

Inhalation : Irritation, symptoms of drunkenness.

Eye contact : Irritation, tearing.

Skin contact : Irritation.

Ingestion : Sore throat, diarrhea, stomach pain, headache, drowsiness, symptoms of drunkenness.

Chronic Health Hazard : None.

4. First Aid Measures

General advice : None.

Eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Skin contact : Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Ingestion : Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.

Inhalation : If adverse effects occur, remove to uncontaminated area. Give artificial

respiration if not breathing. If not breathing, oxygen should be administered by qualified personnel. Get immediate medical attention.

5. Fire-Fighting Measures

- Suitable extinguishing media : Alcohol resistant foam, carbon dioxide, regular dry chemical, water.
Large fires: Use alcohol-resistant foam or flood with fine water spray.
- Specific hazards : Severe fire hazard. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Vapor/air mixtures are explosive above flash point.
- Fire fighting : Move container from fire area if it can be done without risk. Cool containers with water spray until well after fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzle until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck: Evacuation radius: 800 meters (1/2 mile). Water may be ineffective.

6. Accidental Release Measures

- Personal precautions : None.
- Environmental precautions : None.
- Methods for cleaning up : Avoid heat, flames, sparks and other sources of ignition. Remove sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).
- Additional advice : None.

7. Handling and Storage

Handling

Secure cylinder when using to protect from falling. Use suitable hand truck to move cylinders.

Storage

Store in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.106. Grounding and bonding required. Keep separated from incompatible substances.

8. Exposure Controls / Personal Protection

Exposure limits

- 400 ppm (1400 mg/m³) OSHA TWA
- 400 ppm ACGIH TWA
- 400 ppm (1400 mg/m³) NIOSH recommended TWA 10 hour(s)

Engineering measures

Provide local exhaust or process enclosure ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

Personal protective equipment

- Respiratory protection : The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA.
2000 ppm – Any supplied-air respirator operated in a continuous-flow mode. Any powered, air-purifying respirator with organic vapor cartridge(s). Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s). Any air-purifying respirator with a full facepiece and an organic vapor canister. Any self-contained breathing apparatus with a full facepiece. Any supplied-air respirator with a full facepiece.
Escape – Any air-purifying respirator with a full facepiece and an organic vapor canister. Any appropriate escape-type, self-contained breathing apparatus.
For unknown concentrations or immediately dangerous to life or health – Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.
- Hand protection : Wear appropriate chemical resistant gloves.
- Eye protection : Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
- Skin and body protection : Wear appropriate chemical resistant clothing.

9. Physical and Chemical Properties

- Form : Liquid.
Color : Colorless.
Odor : Fruity odor.
Molecular weight : 88.11
Vapor pressure : 100 mmHg @ 27 C
Vapor density : 3.04 (air = 1)
Specific gravity : 0.902 (water = 1)
Boiling point : 171 F (77 C)
Freezing point : -119 F (-84 C)
Water solubility : 8.7%
Evaporation rate : 6.0 (butyl acetate = 1)

10. Stability and Reactivity

- Stability : Stable at normal temperatures and pressure.
Conditions to avoid : Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat.
Materials to avoid : Acids, bases, combustible materials, oxidizing materials.
Hazardous decomposition products : Thermal decomposition products: Oxides of carbon.

11. Toxicological Information

Irritation Data

400 ppm eyes-human

Toxicity Data

200 gm/m3 inhalation-rat LC50; >20 ml/kg skin-rabbit LD50; 5620 mg/kg oral-rat LD50

Acute Health Hazard

Ingestion : Slightly toxic.
Inhalation : Slightly toxic.
Skin : Not available.

12. Ecological Information

Ecotoxicity Data

Fish toxicity : 1500000 ug/L 48 hour(s) LC50 (Mortality) Medaka, high-eyes (Oryzias latipes)
Invertebrate toxicity : 6000 mg/L 24 hour(s) EC100 (Abundance) Water flea (Daphnia magna)
Algal toxicity : > 1000000 ug/L 48 hour(s) (Population growth) Green algae (Scenedesmus pannonicus)
Other toxicity : 150000 ug/L 48 hour(s) LC50 (Mortality) Mexican axolotl (Ambystoma mexicanum)

13. Disposal Considerations

Waste from residues / unused products : Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Water Number(s): D001
Contaminated packaging : Return cylinder to supplier.

14. Transport Information

DOT (US only)

Proper shipping name : Ethyl Acetate
Class : 3, Packing Group II
UN/ID No. : UN1173
Labeling : Flammable Liquid

Further information

Cylinders should be transported in a secure upright position in a well ventilated truck.

15. Regulatory Information

OSHA Process Safety (29 CFR 1910.119) Hazard Class(es)

Not regulated.

TCSA

Material is listed in TSCA inventory.

SARA Title III Section 302 Extremely Hazardous Substances (40 CFR 355.30)

Not regulated.

SARA Title III Section 304 Extremely Hazardous Substances (40 CFR 355.40)

Not regulated.

SARA Title III SARA Sections 311/312 Hazardous Categories (40 CFR 370.21)

Acute: Yes
Chronic: No
Fire: Yes

Reactive: No
Sudden Release: No

SARA Title III Section 313 (40 CFR 372.65)
Not regulated.

16. Other Information

Prepared by : Specialty Gases of America, Inc.
For additional information, please visit our website at www.americangasgroup.com.