



Section 1. Product and Company Identification

Product Name Ethyl Acetate

CAS Number 141-78-6

Manufac

turer

Details:

POWERCHEM –Qewaisna –Menofia Egypt

Emergency telephone number:

(+2)01117366722

WWW.POWERFINECHEMICAL.COM

Section 2. Hazards Identification

Classification of the substance or mixture

OSHA Hazards: Flammable liquid, Target Organ Effect, Irritant

Target Organs: Blood, Central nervous system, Kidney, Liver

GHS Classifications

Eye Irritation (Category 2)

Flammable Liquids (Category 2)

Specific target organ toxicity - single exposure (Category 3)

GHS Label Elements

Pictograms:



Signal word: DANGER



Hazard and precautionary statements

Hazard Statements

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary Statements

P261 Avoid breathing dust/fumes/gas/mist/vapors.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

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

P240 Ground/bond container and receiving equipment.



P337 + P313 If eye irritation persists: Get medical attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233 Keep container tightly closed.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P243 Take precautionary measures against static discharge.
P241 Use explosion-proof electrical, ventilating, and lighting equipment.
P242 Use only non-sparking tools.
P271 Use only outdoors or in a well-ventilated area.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves and eye and face protection.

NFPA Rating

Health: 1
Flammability: 3
Reactivity: 0

Potential Health Effects

Eyes: Causes eye irritation.
Ingestion: May be harmful if swallowed.
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.
Skin: Harmful if absorbed through skin. Causes skin irritation.

Section 3. Composition / Information on Ingredients

Common Name Ethyl Acetate
Synonym(s) Acetic acid ethyl ester; ethyl ethanoate; ethyl acetic ester, acetic ester; acetoxyethane
CAS Number 141-78-6

COMPONENT	CAS NUMBER	CONCENTRATION
Ethyl Acetate	141-78-6	100% wt.



Section 4. First Aid Measures

General advice: Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Skin: Wash skin with soap and copious amounts of water. Seek medical attention.

Inhalation: Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Eyes: Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.

Ingestion: DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

Section 5. Firefighting Measures

Suitable (and unsuitable) extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products): Carbon oxides expected to be the primary hazardous combustion product.

Special protective equipment and precautions for firefighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

Unusual Fire and Explosion Hazards

May produce a floating fire hazard.

Static ignition hazard can result from handling and use.

Vapors may settle in low or confined spaces.

Vapors may travel to source of ignition and flash back.

Flammable Properties

Classification: OSHA/NFPA Class IB Flammable Liquid.

Flash point (Closed Cup): -4°C (24°F)

Auto-ignition temperature: 426°C (800°F)

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions: Stop leak / contain spill if possible and safe to do so. Prevent product from entering drains.



Methods and materials for containment and cleaning up: Highly flammable liquid. Eliminate all sources of ignition. All equipment used when handling this product must be grounded. A vapor suppressing foam may be used to reduce vapors. Do not touch or walk through spilled material. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Use clean non-sparking tools to collect absorbed material.

Section 7. Handling and Storage

Precautions for safe handling: Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a cool, dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8. Exposure Controls / Personal Protection

Control parameters, e.g., occupational exposure limit values or biological limit values

Occupational Exposure Limits

Component	Source	Type	Value	Note
Ethyl Acetate	US (ACGIH)	TWA	400 ppm	ACGIH Threshold Limit Value
Ethyl Acetate	US (OSHA)	TWA	400 ppm, 1400 mg/m ³	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants

Appropriate engineering controls: General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

Individual protection measures, such as personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

Skin and body protection: Wear impervious, flame retardant, antistatic protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.



Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9. Physical and Chemical Properties

Appearance (physical state, color, etc.): Liquid. Colorless, clear.

Freezing point: -84°C (-119°F)

Initial boiling point and boiling range: 77°C (171°F)

Flash point (Closed Cup): -4°C (24°F)

Upper / Lower flammability or explosive limits: 2% (V) / 11.5% (V)

Vapor pressure: 97.3 hPa (73.0 mmHg) at 20.0°C (68.0°F)

Relative Density: 0.902 g/mL at 25°C (77°F)

Solubility(ies): soluble

Auto-ignition temperature: 426°C (800°F)

Formula (Ethyl Acetate): C₄H₈O₂

Molecular Weight (Ethyl Acetate): 88.1 g/mol

Section 10. Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Vapors may form explosive mixture with air.

Conditions to avoid (e.g., static discharge, shock or vibration): Heat, flames and sparks. Extreme temperatures and direct sunlight.

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section 11. Toxicological Information

Product Summary: Not known to be toxic to the reproductive system, teratogenic, or carcinogenic. Has demonstrated some mutagenic effects in animals.

Acute Toxicity

LC50 (Inhalation) Rat 22,627 ppm 4 hours

LD50 (Dermal) Rabbit 20,000 mg/kg

LD50 (Oral) Rat 11,300 mg/kg

Irritation: Eyes Causes eye irritation.

Skin: Slightly irritating to the skin. Repeated contact with neat product may dry the skin causing cracking and/or fissuring.

Carcinogenicity

IARC: No component of this product, present at levels greater than or equal to 0.1%, is identified as probable or confirmed human carcinogen by IARC.



ACGIH: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

Other Hazards

Eyes: May cause irritation with redness, tearing, pain and/or blurred vision.

Ingestion: May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and central nervous system effects. Aspiration hazard: breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

Inhalation: High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects; and/or liver and kidney damage. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.

Skin: This product may cause irritation, redness, and/ or drying. This product is not likely to be absorbed through the skin in harmful amounts. In rare instances, repeated skin contact with ethyl acetate may cause sensitization.

Chronic: Prolonged or repeated inhalation may cause toxic effects. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis). In rare instances, repeated skin contact with ethyl acetate may cause sensitization. Prolonged or repeated exposure may have reproductive toxicity or mutagenic effects.

Section 12. Ecological Information

Ecotoxicity (aquatic and terrestrial, where available)

Acute Fish Toxicity (Ethyl Acetate): LC50 / 96 hours Fathead Minnow 230mg/L

Persistence and degradability: Biodegradation is expected.

Bioaccumulative potential: Biaccumulation is unlikely

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Description of waste residues and information on their safe handling and methods of disposal:

UN number UN1173

UN proper shipping name Ethyl acetate

Transport hazard class(es) 3



Packing group (if applicable) II

Reportable Quantity: 5,000 lbs.

IMDG

UN Number: UN1173

Hazard Class: Class 3

Packing Group: PG II

EMS-No: F-E, S-D

Proper shipping name: Ethyl Acetate

Marine pollutant: No

IATA

UN Number: UN1173

Hazard Class: Class 3

Packing Group: PG II

Proper shipping name: Ethyl acetate

Section 15. Regulatory Information

Safety, health and environmental regulations specific for the product in question

OSHA Hazards: Flammable liquid, Target Organ Effect, Irritant

All ingredients are on the following inventories or are exempted from listing

Australia: AICS

Canada: DSL

China: IECS

European Union: EINECS

Japan: ENCS/ISHL

Korea: ECL

New Zealand: NZIoC

Philippines: PICCS

United States of America: TSCA

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard

Chronic Health Hazard: Fire Hazard



CERCLA

Ethyl acetate (CAS-No. 141-78-6)

RQ: 5,000 lbs

Massachusetts Right to Know Components

Ethyl acetate (CAS-No. 141-78-6)

Revision Date: 2007-03-01

Pennsylvania Right to Know Components

Ethyl acetate (CAS-No. 141-78-6)

Revision Date: 2007-03-01

New Jersey Right to Know Components

Ethyl acetate (CAS-No. 141-78-6)

Revision Date: 2007-03-01

California Prop 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other Information

parchem
fine & specialty chemicals