

Print Date: September 24, 2025

# **Section 1: Product & Company Information**

Product Identifier: Ethyl Acetate, Reagent

Other Means of Identification

Product Number: 152006

**Recommended Use and Restrictions on Use** 

Recommended Use: No data available. Restrictions on Use: No data available.

Manufacturer / Importer / Supplier / Distributor Information

Company Name: CORECHEM Inc.

Address: 4320 Greenway Drive

Knoxville, TN 37918 USA

Information Telephone Number: 1-865-524-4239

Fax Number: 1-865-524-3375

Website: www.corecheminc.com
Contact Person: Regulatory Manager
E-mail: regulatory@corecheminc.com

Emergency Phone Number: Chemtrec® 1-800-424-9300 / Outside USA 1-703-527-3887 (monitored 24 hours/day)

# **Section 2: Hazards Identification**

### GHS Hazard Classification(s)

In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

# Physical Hazard(s)

Flammable, Liquids - 2

### Health Hazard(s)

Specific Target Organ Toxicity (STOT)-Respiratory Irritation, Single exposure - 3

# Environmental Hazard(s)

Not classified.

Label Elements
Signal Word
DANGER

# Hazard Symbol(s)





# Hazard Statement(s)

H225: Highly flammable liquid and vapor. H336: May cause respiratory Irritation.

# **Precautionary Statements**

# General

Not applicable.

### 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.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P264: Wash face, hands and any exposed skin thoroughly after handling.

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

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



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### 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 to fresh air and keep at rest in a position comfortable for breathing.

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.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P370 + P378: In case of fire: Use suitable extinguishing media for extinction.

### Storage

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

P403 + P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

#### Disposal

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### Hazard(s) not otherwise classified (HNOC)

None known.

# **Section 3: Composition/Information on Ingredients**

#### Substance

Chemical Identity <sup>2</sup>	Common Name/Synonym(s)	CAS # <sup>3</sup>	Weight %	Impurity or Stabilizing Additive
Ethyl Acetate	-	141-78-6	99 - 100%	No

- 1. Information regarding the composition and the percent ranges of the mixtures ingredients are not presented as it Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.
- 2. Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
- 3. "—"Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

# **Section 4: First-Aid Measures**

### **General Information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

### Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### **Skin Contact**

Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for at least 15-20 minutes. Get medical attention immediately! Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.

### Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

# Ingestion

Rinse mouth with water. Do not induce vomiting. Give activated charcoal. Call Poison Control Center. Consult a doctor/medical service if you feel unwell. Doctor: gastric lavage. Ingestion of large quantities: immediately to hospital.

# Most important symptoms/effects, acute and delayed

# Symptoms

Direct contact with liquid may cause mild eye irritation. Inhalation of mists or vapors may cause headache, dizziness, nausea and other symptoms of central nervous system depression.

## Indication of immediate medical attention and special treatment needed

# Hazards

**Inhalation:** Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Central nervous system depression. Dizziness. Headache. Narcosis. Disturbances of consciousness. Change in the haemogramme/blood composition.

Ingestion: Risk of aspiration pneumonia. Nausea. Vomiting. Central nervous system depression. Symptoms similar to those listed under inhalation.

**Skin Contact:** ON CONTINUOUS EXPOSURE/CONTACT: Not irritating. Cracking of the skin.

**Eye Contact:** Irritation of the eye tissue. Lacrimation.

### Treatment

Treat symptomatically. Symptoms may be delayed.



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# **Section 5: Fire-Fighting Measures**

#### **General Fire Hazards**

Flammable liquid and vapor.

#### Suitable (and Unsuitable) Extinguishing Media

### Suitable Extinguishing Media

Use water mist, alcohol-resistant foam, dry chemical, or carbon dioxide.

### **Unsuitable Extinguishing Media**

Avoid water in straight hose stream; will scatter and spread fire.

### **Specific Hazards Arising from the Chemical**

Highly flammable liquid and vapor. Vapors are heavier than air and may flow along surfaces to remote ignition sources and flash back. Sensitive to static discharge. Prevent buildup of vapors or gases to explosive concentrations.

### **Special Protective Equipment and Precautions for Firefighters**

## **Special Fire-Fighting Equipment Procedures**

Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors.

## **Special Protective Equipment for Fire-Fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand (OSHA/NIOSH approved or equivalent) and full protective gear.

# **Section 6: Accidental Release Measures**

### Personal Precautions, Protective Equipment and Emergency Procedures

Evacuate spill area and keep unprotected personnel away. Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Minimize generation of static electricity which may cause sparking. Avoid contact with eyes. Wear appropriate protective clothing. Avoid breathing vapors or mists. Ventilate area with explosion proof equipment.

### Methods and Materials for Containment and Clean-Up

Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth,) and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

### **Notification Procedures**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

# **Environmental Precautions**

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

## **Section 7: Handling and Storage**

### **Precautions for Safe Handling**

Avoid contact with eyes. Wear protective clothing and equipment as described in Section 8. Avoid breathing vapors or mists. Use with adequate ventilation. Wash hands with soap and water after use. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use. Use with non-sparking tools and explosion proof equipment. Electrically bond and ground containers for transfer.

# Conditions for Safe Storage, including any Incompatibilities

Store in a cool, dry, well ventilated location away from heat and open flames. Keep away from incompatible materials. Protect container from physical damage. Keep containers closed when not in use. Keep out of the reach of children.

## **Section 8: Exposure Controls/Personal Protection**

### **Control Parameters**

### **Occupational Exposure Limits**

Occupational Exposure Limits				
Chemical Identity	Туре	Value	Source	
Ethyl Acetate	TWA	400 ppm	US. ACGIH Threshold Limit Values	
Ethyl Acetate	PEL	400 ppm 1,400 mg/m <sup>3</sup>	US OSHA Table Z-1	
Ethyl Acetate	TWA	400 ppm	US OSHA Table Z-1	

### **Biological Limit Values**

The product does not contain any relevant quantities of hazardous materials with assigned biological limit values.



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### **Appropriate Engineering Controls**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Use explosion proof electrical equipment and wiring where required.

### Individual protection measures, such as personal protective equipment (PPE)

### **General Information**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

#### **Eye/Face Protection**

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

#### **Skin Protection**

#### **Hand Protection**

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing.

#### **Respiratory Protection**

In operations where the exposure limits are exceeded, an approved respirator with applicable cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow regulations and good industrial hygiene practice.

## **Hygiene Measures**

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated footwear that cannot be cleaned. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing.

# **Section 9: Physical and Chemical Properties**

Appearance:

Physical State: Liquid
Color: Colorless

Odor: Sweet/Ester

Odor Threshold: 3.9 ppm
pH: No data available.

Melting Point/Freezing Point: -83 °C

Initial Boiling Point and Boiling 78 °C

Range:

Flash Point: -4 °C (Pensky-Martens Closed Cup)

Evaporation Rate (butyl acetate=1):
Flammability (solid, gas):

Upper/Lower Limit on Flammability or Explosive Limits
Flammability Limit – Upper:
Flammability Limit – Lower:
Explosive Limit – Upper:
Explosive Limit – Upper:
No data available.
Explosive Limit – Lower:
No data available.

No data available.

Explosive Limit – Lower: No data available

Vapor Pressure: 99 mbar (20 °C)

Vapor Density (air = 1): 3 (AIR=1)

Relative Density (water=1): 0.902 (20 °C)

Solubility(ies):

Solubility in water: Moderately soluble in water. Solubility (other): No data available.

Partition coefficient (noctanol/water):

Auto-Ignition Temperature:
Decomposition Temperature:
Viscosity:

No data available.
No data available.
No data available.

Other Information:

Molecular Weight: 88.11 g/mol Formula: (C4H8O2)

# **Section 10: Stability and Reactivity**

### Reactivity

Not reactive under normal conditions of use.



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#### **Chemical Stability**

Material is stable under normal conditions. Unstable on exposure to light. Unstable on exposure to moisture. Unstable on exposure to air.

## **Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

### **Conditions to Avoid**

Keep away from heat, sparks, flames and other sources of ignition.

### **Incompatible Materials**

Strong oxidizing agents. Strong alkalis. Strong acids. Nitrates. May attack some plastics, rubber and coatings.

## **Hazardous Decomposition Products**

Carbon Dioxide and Carbon Monoxide may form when heated to decomposition.

# **Section 11: Toxicological Information**

### Information on routes of exposure

**Ingestion:** Swallowing may cause gastrointestinal irritation and central nervous system depression with symptoms similar to those described under inhalation.

Inhalation: Inhalation of mists or vapors may cause nose and throat irritation with the possibility of central nervous system depression. Symptoms

of central nervous system depression include headache, dizziness, drowsiness, nausea and unconsciousness.

Skin Contact: Prolonged contact may cause skin irritation with drying and dermatitis.

Eye Contact: Direct contact with eyes may cause mild eye irritation.

### Information on Toxicological Effects

# Acute Toxicity (List all possible routes of exposure)

Oral

Ethyl Acetate: LD50 (Rat): 5,620 mg/kg

#### Dermal

Ethyl Acetate: LD50 (Rabbit): > 20,000 mg/kg

# Inhalation

Ethyl Acetate: LD50 (Mouse, 4 h): 1,500 mg/l

## **Repeated Dose Toxicity**

No data available.

# Skin Corrosion/Irritation

Causes mild skin irritation.

## Serious Eye Damage/Eye Irritation

Causes serious eye irritation.

### Respiratory/Skin Sensitization

Not a skin sensitizer.

### Carcinogenicity

## IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

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.

### **US. National Toxicology Program (NTP) Report on Carcinogens**

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.

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

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.

# **Germ Cell Mutagenicity**

In Vitro

No mutagenic components identified.

In Vivo

No mutagenic components identified.

### **Reproductive Toxicity**

No components toxic to reproduction

### Specific Target Organ Toxicity - Single Exposure

Narcotic effect. Respiratory tract irritation. May cause drowsiness or dizziness.

### Specific Target Organ Toxicity - Repeated Exposure

None known.



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#### **Aspiration Hazard**

May be harmful if swallowed and enters airways.

### Other Effects

None known.

### **Chronic Effects**

ON REPEATED EXPOSURE: Red skin. Tingling/irritation of the skin. Itching. Skin rash/inflammation. Change in the haemogramme or blood composition. Loss of appetite. Enlargement/affection of the liver. Affection of the renal tissue.

# **Section 12: Ecological Information**

### **Ecotoxicity**

# **Acute Hazards to the Aquatic Environment**

Fish

Ethyl Acetate: LC 50 (Fathead minnow (Pimephales promelas), 96 h): 220 - 250 mg/l Mortality

Ethyl Acetate: LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 352 - 500 mg/l Mortality

Ethyl Acetate: LC 50 (Carp (Leuciscus idus melanotus), 48 h): 270 mg/l Mortality

#### Aquatic Invertebrates

Ethyl Acetate: EC 50 (Brine shrimp (Artemia salina), 24 h): 306.9 - 389.9 mg/l Intoxication

Ethyl Acetate: EC 50 (Water flea (Daphnia Magna), 48 h): 610 mg/l Mortality

## **Toxicity to Aquatic Plants**

No data available.

# **Chronic Hazards to the Aquatic Environment**

Fish

No data available.

**Aquatic Invertebrates** 

No data available.

**Toxicity to Aquatic Plants**No data available.

# Persistence and Degradability

### Biodegradation

Expected to be readily biodegradable.

# **BOD/COD Ratio**

No data available.

## **Bioaccumulative Potential**

## **Bioconcentration Factor (BCF)**

No data available on bioaccumulation.

### Partition Coefficient n-octanol / water (log Kow)

Log Kow: 0.73

### **Mobility in Soil**

The product is water soluble and may spread in water systems.

### **Other Adverse Effects**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

# **Section 13: Disposal Considerations**

## **Disposal Instructions**

Dispose of waste and residues in accordance with local authority requirements. Mix with compatible chemical which is less flammable and incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

### **Contaminated Packaging**

Handle contaminated packages in the same way as the substance itself. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks, and flames. Do not cut, puncture, or weld on or near this container. Follow label warnings until container is thoroughly cleaned or destroyed.

# **Section 14: Transportation Information**

US Department of Transportation (DOT)

UN Number: UN1173



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UN Proper Shipping Name: Ethyl acetate

Technical Name: -

Hazard Class: 3

Subsidiary Hazard Risk: -

Packing Group: II

DOT Label/Placard Exemptions: Not determined

Special Provisions: IB2, T4, TP1

Packaging Exceptions: 49CFR 173.150

Packaging Non-Bulk: 49CFR 173.202

Packaging Bulk: 49CFR 173.242 Reportable Quantity (RQ): 5,000lb (2,270kg)

Marine Pollutant: No

Poison Inhalation Hazard: No

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that

persons transporting the product know what to do in the event of an accident or spillage.

Emergency Response Guidebook (ERG) #: 129

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

# **Section 15: Regulatory Information**

### **US Federal Regulations**

## Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)

This product or ingredient(s) are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

## Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)

The following chemical(s) in this material are subject to reporting levels established by CERCLA:

Ethyl Acetate (CAS# 141-78-6) for 5,000 lbs

### Clean Air Act (CAA), Section 112(r)

No chemical(s) in this material are subject to the reporting requirements of CAA.

# Emergency Planning and Community Right-To-Know Act (EPCRA)

# **EPCRA 302 Extremely Hazardous Substance**

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.

# **EPCRA 304 Emergency Response Notification**

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 304.

# **EPCRA 311/312 Emergency and Hazardous Materials Reporting**

Fire Hazard: Yes

Sudden Release of Pressure: No

Reactive: No

Acute (Immediate) Health Hazard: Yes

Chronic (Delayed) Health Hazard: No

# EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting

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

# **US State Regulations**

# California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

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

Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.

# **Section 16: Other Information**

# Hazardous Materials Identification System (HMIS ${}^\circledR$ ) Classification

Health Hazard: 2

Chronic Health Hazard: /

Flammability: 3
Physical Hazard: 0

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

# National Fire Protection Association (NFPA 704) Rating

Health Hazard: 2



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Fire Hazard: 3

Reactivity Hazard: 0
Special: N/A

(Hazard Rating: 0 - Minimal / 1 - Slight / 2 - Moderate / 3 - Serious / 4 - Severe)

Prepared By: Regulatory Manager

Version #: 001

Issue Date: August 14, 2015 Last Revised By: Regulatory Assistant C

Last Revision Date: 7/31/2024 Current Revision: 03 Sections Revised: 2, 4-13

## **Key to Abbreviations and Acronyms**

ATE - Acute Toxicity Estimate ACGIH - American Conference of Industrial Hygienists
BCF - Bioconcentration Factor AIHA – American Industrial Hygiene Association

EC50 - Effective concentration, 50%

IDHL – Immediately Dangerous to Life and Health

Kg – Kilogram

BEI - Biological Exposure Indices

CAS – Chemical Abstracts Service

DOT – US Department of Transportation

 I – Liter
 EPA – US Environmental Protection Agency

 Ib – Pound
 GHS - Globally Harmonized System of Classification and Labelling of Chemicals

LC50 - Lethal Concentration, 50%

LD50 - Lethal Dose, 50%

IATA - International Agency for Research on Cancer

IATA - International Air Transport Association

IBC - Intermediate Bulk Container

ml – milliliter IMDG - International Maritime Dangerous Goods
N/A – Not Applicable NIOSH – National Institute for Occupational Safety and Health

N/D – Not Determined

NTP – National Toxicology Program

PEL – Permissible Exposure Limit

OSHA – US Occupational Health and Safety Administration

REL – Recommended Exposure Limit

SARA – US EPA Superfund Amendments and Reauthorization Act

STEL – Short-term Exposure Limit TSCA – US EPA Toxic Substances Control Act

TWA - Time weighted average UN - United Nations

### References

HSDB® - Hazardous Substances Data Bank

### Disclaimer

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