

**Tarr**

# SAFETY DATA SHEET

Date Issued : 10/10/2005

SDS No : 10460

Date Revised : 02/26/2021

Revision No : 8

## ETHYL ACETATE

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ETHYL ACETATE**MOLECULAR FORMULA:** CH<sub>4</sub>H<sub>8</sub>O<sub>2</sub>**ALTERNATE TRADE NAME(S):** acetic acid ethyl ester, USP Grade, Ethyl Acetate ACS Grade**MANUFACTURER**

Distributed by Tarr, LLC

P.O. Box 12570

Portland, OR 97212

**Customer Service:** 503-288-5294**24 HR. EMERGENCY TELEPHONE NUMBERS****CHEMTREC (US Transportation) :** (800) 424 - 9300

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4115 W. Turney Ave.

Phoenix, AZ 85019

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### 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS****Health:**

Flammable Liquids, Category 2

Eye Irritation, Category 2

Specific target organ toxicity - single exposure, Category 3

**GHS LABEL**

Flame

Exclamation  
mark**SIGNAL WORD: DANGER****HAZARD STATEMENTS**

H336: May cause drowsiness or dizziness.

H319: Causes serious eye irritation.

H225: Highly flammable liquid and vapour.

**PRECAUTIONARY STATEMENTS****Prevention:**

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

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- P262: Do not get in eyes, on skin, or on clothing.  
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P240: Ground and bond container and receiving equipment.  
 P233: Keep container tightly closed.  
 P243: Take action to prevent static discharges.  
 P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.  
 P242: Use non-sparking tools.  
 P271: Use only outdoors or in a well-ventilated area.  
 P264: Wash skin thoroughly after handling.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

- P381: In case of leakage, eliminate all ignition sources.  
 P391: Collect spillage.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

**EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS:** WARNING! FLAMMABLE LIQUID AND VAPOR. HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS AND IRRITATION OF THE EYES OR RESPIRATORY TRACT. PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE DRYING, CRACKING, OR IRRITATION.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Material may cause eye irritation. Direct contact with the liquid or exposure to its vapors or mists may cause stinging, tearing, redness.

**SKIN:** Irritating to skin. Repeated exposure may cause skin dryness or cracking.

**INHALATION:** Inhalation of vapors may cause respiratory irritation.

**MEDICAL CONDITIONS AGGRAVATED:** Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt. %	CAS
Ethyl Acetate	100	141-78-6

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Remove contaminated clothing/shoes. Flush skin with water for at least 15 minutes. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

**INGESTION:** Seek medical advice.

**INHALATION:** Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

**5. FIRE FIGHTING MEASURES**



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**EXTINGUISHING MEDIA:** Use regular foam, water fog, carbon dioxide, dry chemical.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide, carbon dioxide and unidentified organic compounds may be formed during combustion.

**EXPLOSION HAZARDS:** When heated above the flash point, releases flammable vapors. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapor source. Fine sprays/mists may be combustible at temperatures below normal flash point.

## 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES:** Remove all sources of ignition and provide ventilation. Wear protective clothing as given in section 8. Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material with absorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal using non-sparking equipment. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for proper disposal.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Avoid breathing of or contact with material. Only use in well ventilated areas. Do not enter confined space unless adequately ventilated. Keep container closed. Check that all equipment is properly grounded. Container hazardous when empty. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Material Safety Data Sheet. Use the information in this data sheet as input to risk assessment of local circumstances to help determine appropriate controls for safe handling storage and disposal of this material. 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.**

**COMMENTS:** KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition; they may explode and cause injury or death. Observe all federal, state, and local regulations and National Fire Protection Association (NFPA) Codes with pertain to the specific local conditions of stage and use, including OSHA 29 CFR 1910.106 and NFPA 30, 70, 77, and 497.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
	EXPOSURE LIMITS			
Chemical Name	Type		ppm	mg/m³
Ethyl Acetate	OSHA PEL	TWA	400 <sup>[1]</sup>	1400 <sup>[1]</sup>
	ACGIH TLV	TWA	400	1440
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL
Footnotes:				
1. US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910-1000)				

**ENGINEERING CONTROLS:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be



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needed to control airborne levels below recommended exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**SKIN:** Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**RESPIRATORY:** If exposure may or does exceed occupational exposure limits (Sec. 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

**PROTECTIVE CLOTHING:** Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required.

**WORK HYGIENIC PRACTICES:** Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid

**ODOR:** Sweet, ester.

**ODOR THRESHOLD:** 3.9 ppm

**COLOR:** Clear, colorless liquid.

**FLASH POINT AND METHOD:** -4°C TAG CC, ASTM D2155

**FLAMMABLE LIMITS:** 0 to 0

**AUTOIGNITION TEMPERATURE:** 485°C

**VAPOR PRESSURE:** 99 mbar at 20°C

**VAPOR DENSITY:** Heavier than air.

**BOILING POINT:** 78°C

**FREEZING POINT:** -83.°C

**SOLUBILITY IN WATER:** Moderate

**PARTITION COEFFICIENT: N-OCTANOL/WATER:** No exotherm to 500 degrees C.

**EVAPORATION RATE:** 4.1 (n-Butyl Acetate=1)

**DENSITY:** 7.37

**SPECIFIC GRAVITY:** 0.902 @ 20°C

**MOLECULAR WEIGHT:** 88.11 **Formula:** C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>

**10. STABILITY AND REACTIVITY**

**REACTIVITY:** Yes

**HAZARDOUS POLYMERIZATION:** Will not occur.

**STABILITY:** Avoid heat, flame, and other sources of ignition.

**INCOMPATIBLE MATERIALS:** Strong oxidizers.

**ETHYL ACETATE****11. TOXICOLOGICAL INFORMATION****ACUTE TOXICITY**

**DERMAL LD<sub>50</sub>:** > 20 mL/kg (rabbit)

**Notes:** Highest dose tested.

**ORAL LD<sub>50</sub>:** 5600 mg/kg (rat)

**INHALATION LC<sub>50</sub>:** 16000 ppm/6 hours, Rat

**RESPIRATORY OR SKIN SENSITISATION:** None

**GENERAL COMMENTS:** None identified.

**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** Acute toxicity data ethyl acetate, if available, are listed below.

Oxygen Demand Data:

BOD-5: 1,240 mg/g

BOD-20: 1,240 mg/g

BOD-20: 1,430 mg/g

COD: 1,540 mg/g

ThBOD: 1,820 mg/g

Acute Aquatic Effects Data:

48 h LC-50 (golden orfe): 270 mg/l

48 h LC-50 (golden orfe): 333 mg/l

24 h LC-50 (daphnid): 3090 mg/l

24 h EC-50 (daphnid): 3090 mg/l

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

**EMPTY CONTAINER:** KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

**RCRA/EPA WASTE INFORMATION:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Ethyl Acetate

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** UN 1173



**ETHYL ACETATE****PACKING GROUP: II****NAERG: 129****REPORTABLE QUANTITY (RQ) UNDER CERCLA: 5,000****LABEL:** Flammable liquid

**OTHER SHIPPING INFORMATION:** 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.

**AIR (ICAO/IATA)****SHIPPING NAME:** Ethyl Acetate**UN/NA NUMBER:** UN 1173**PRIMARY HAZARD CLASS/DIVISION: 3****PACKING GROUP: II****ERG: 129****VESSEL (IMO/IMDG)****SHIPPING NAME:** Ethyl Acetate**UN/NA NUMBER:** UN 1173**PRIMARY HAZARD CLASS/DIVISION: 3****PACKING GROUP: II****15. REGULATORY INFORMATION****UNITED STATES****DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

Flammable  
Liquid

R37/38: Irritating to respiratory system and skin.

R36: Irritating to eyes.

R67: Vapours may cause drowsiness and dizziness.

R7: May cause fire.

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HEALTH HAZARDS:** This product should be reported as an immediate (acute) health hazard, and a fire hazard.

**313 REPORTABLE INGREDIENTS:** To the best of our knowledge, chemicals in this product are not listed as toxic chemicals under Section 313 of SARA Title III.

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** To the best of our knowledge, this product is not listed as an extremely hazardous substance.

**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**ETHYL ACETATE**

Chemical Name	Wt. %	CERCLA RQ
Ethyl Acetate	100	5,000 LBS.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS	TSCA SECTION
Ethyl Acetate	141-78-6	12b,

TSCA STATUS: Listed.

**CANADA****WHMIS HAZARD SYMBOL AND CLASSIFICATION**

Flammable  
Liquid

S15: Keep away from heat.

**WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. This product is a WHMIS controlled substance.

**WHMIS CLASS:** This product has a WHMIS classification of B/2.

**DOMESTIC SUBSTANCE LIST (INVENTORY):** Listed.

**16. OTHER INFORMATION**

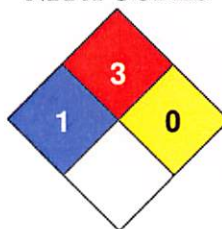
**REASON FOR ISSUE:** Updated SDS information and changed to new format.

**PREPARED BY:** Compliance    **Date Revised:** 02/26/2021

**REVISION SUMMARY:** This SDS replaces the 02/26/2021 SDS. Revised: **Section 1:** SDS No.

**HMIS RATING**

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input type="checkbox"/>	3
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input type="checkbox"/>	

**NFPA CODES**

**NFPA STORAGE CLASSIFICATION:** These ratings are part of a specific hazard communication program and should be disregarded where individuals are not trained in the use of this hazard rating system. You should be familiar with the hazard communication programs applicable to your workplace.

**HMIS RATINGS NOTES:** The HMIS rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in the SDS must be considered.

**MANUFACTURER DISCLAIMER:** The information contained herein is based on the data available to us and is believed to be accurate. However, Tarr Acquisition, LLC (Tarr, LLC) makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Tarr, LLC assumes no responsibility for injuries from the use of the product described herein.

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