

**Eastman(TM) Ethyl Acetate, 85-88%**

Version            Revision Date:            SDS Number:            Date of last issue: -  
2.1                05/18/2020                150000000118            Date of first issue: 09/06/2016  
PRD                                               SDSUS / Z8 / 0001

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**SECTION 1. IDENTIFICATION**

Product name                                : Eastman(TM) Ethyl Acetate, 85-88%

Product code                                : 00055-00, P0005500, P0005504

**Manufacturer or supplier's details**

Company name of supplier                : Eastman Chemical Company

Address                                        : 200 South Wilcox Drive  
    Kingsport TN 37660-5280

Telephone                                    : (423) 229-2000

Emergency telephone                      : CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN7321

**Recommended use of the chemical and restrictions on use**

Recommended use                          : Solvent

Restrictions on use                        : None known.

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200**

Flammable liquids                          : Category 2

Eye irritation                                : Category 2A

Specific target organ toxicity            : Category 3 (Central nervous system)  
- single exposure

**GHS label elements**

Hazard pictograms                         :



Signal Word                                 : Danger

Hazard Statements                         : H225 Highly flammable liquid and vapor.  
    H319 Causes serious eye irritation.  
    H336 May cause drowsiness or dizziness.

Precautionary Statements                : **Prevention:**  
    P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
    No smoking.  
    P233 Keep container tightly closed.

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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 skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**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 approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Components**

Chemical name	CAS-No.	Concentration (% w/w)
ethyl acetate	141-78-6	85 - 88
ethyl alcohol	64-17-5	12 - 15

**SECTION 4. FIRST AID MEASURES**

If inhaled : Move to fresh air.  
Treat symptomatically.  
If symptoms persist, call a physician.

In case of skin contact : Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

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Get medical advice/ attention.  
Wash contaminated clothing before reuse.  
Destroy or thoroughly clean contaminated shoes.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
Get medical advice/ attention.  
Remove person to fresh air. If signs/symptoms continue, get medical attention.

If swallowed : Seek medical advice.

Most important symptoms and effects, both acute and delayed : Causes serious eye irritation.  
May cause drowsiness or dizziness.

Notes to physician : Treat symptomatically.

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**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use water spray to extinguish.  
Dry chemical  
Carbon dioxide (CO2)

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Prevent buildup of vapors or gases to explosive concentrations.  
  
Water may be ineffective.  
The product will float on water and can be reignited on surface water.

Hazardous combustion products : No hazardous combustion products are known

Further information : Flammable liquid and vapor.  
Material will float and may ignite on surface of water.

Special protective equipment for fire-fighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Wear appropriate personal protective equipment.  
Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions : Avoid release to the environment.

Methods and materials for : Contain spillage, soak up with non-combustible absorbent

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containment and cleaning up material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
After cleaning, flush away traces with water.  
Eliminate all ignition sources if safe to do so.

**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : None known.

Advice on safe handling : Do not get in eyes.  
Wash thoroughly after handling.  
Keep away from fire (No Smoking).  
Keep away from fire, sparks and heated surfaces.  
Do not use sparking tools.

Conditions for safe storage : Keep container closed when not in use.  
Store locked up.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ethyl acetate	141-78-6	TWA	400 ppm	ACGIH
		TWA	400 ppm 1,400 mg/m3	NIOSH REL
		TWA	400 ppm 1,400 mg/m3	OSHA Z-1
		TWA	400 ppm 1,400 mg/m3	OSHA P0
ethyl alcohol	64-17-5	STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0

**Engineering measures** : 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.

**Personal protective equipment**

Respiratory protection : Use respiratory protection unless adequate local exhaust

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ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

## Hand protection

Remarks : Wear suitable gloves.

## Eye protection

: Wear safety glasses with side shields (or goggles).

## Protective measures

: Remove respiratory and skin/eye protection only after vapors have been cleared from the area. Ensure that eye flushing systems and safety showers are located close to the working place. Use personal protective equipment as required.

## Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless

Odor : alcohol-like

Odor Threshold : not determined

pH : not determined

Melting point/range : -119 °F / -84 °C

Boiling point/boiling range : 171 °F / 77 °C

Flash point : 27 °F / -3 °C

Method: Tag closed cup

Evaporation rate : 4.2

Flammability (solid, gas) : Not applicable

Vapor pressure : 99.75 mbar (68 °F / 20 °C)

Relative vapor density : 2.845

Relative density : 0.884 (68 °F / 20 °C)

## Solubility(ies)

Water solubility : Moderate

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Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	871 °F / 466 °C Method: ASTM D2155
Decomposition temperature	:	Method: DTA No exotherm to 500°C
Viscosity	:	
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Explosive properties	:	No data available
Oxidizing properties	:	No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No significant adverse effects were reported
Acute dermal toxicity	:	Remarks: No significant adverse effects were reported

**Components:****ethyl acetate:**

Acute oral toxicity	:	LD50 Oral (Rat): 4,934 mg/kg
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Acute inhalation toxicity : LCLo (Rat): > 22.5 mg/l  
Exposure time: 6 h

Acute dermal toxicity : LD50 Dermal (Rabbit): > 20,000 mg/kg  
Remarks: (highest dose tested)

**ethyl alcohol:**

Acute oral toxicity : LD50 Oral (Rat): 10,470 mg/kg

Acute inhalation toxicity : LC50 (Rat): 117 - 125 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Rabbit): > 15,800 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Remarks : No data available

**Components:****ethyl acetate:**

Species : Rabbit  
Result : none

**ethyl alcohol:**

Species : Rabbit  
Exposure time : 24 h  
Result : none

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Remarks : Causes eye irritation.

**Components:****ethyl acetate:**

Species : Rabbit  
Result : slight

**ethyl alcohol:**

Species : Rabbit  
Result : slight





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**Reproductive toxicity**

Not classified based on available information.

**Product:**

Effects on fertility : Remarks: No data available

**Components:****ethyl acetate:**

Reproductive toxicity - Assessment : Based on available data the classification criteria are not met. Not classified as hazardous.

**STOT-single exposure**

May cause drowsiness or dizziness.

**Product:**

Remarks : No data available

**STOT-repeated exposure**

Not classified based on available information.

**Product:**

Remarks : No data available

**Repeated dose toxicity****Components:****ethyl acetate:**

Species : Rat, male and female  
NOAEL : 900 mg/kg  
LOAEL : 3,600 mg/kg  
Application Route : by gavage  
Exposure time : 90 days

**Aspiration toxicity**

Not classified based on available information.

**Product:**

No aspiration toxicity classification

**Information on likely routes of exposure****Product:**

Inhalation : Remarks: High vapor concentrations may cause drowsiness.

Skin contact : Remarks: None known.

Eye contact : Remarks: Causes serious eye irritation.

Ingestion : Remarks: None known.

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**Further information****Product:**

Remarks : None known.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****ethyl acetate:**

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 230 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (daphnid): 165 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): 5,600 mg/l Exposure time: 48 h  NOEC (Pseudokirchneriella subcapitata (algae)): 1,000 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 6.3 mg/l Exposure time: 32 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 2.4 mg/l Exposure time: 21 d

**ethyl alcohol:**

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 15,300 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 5,012 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): 275 mg/l Exposure time: 72 h

**Persistence and degradability****Components:****ethyl acetate:**

Biodegradability : Result: Readily biodegradable.

**ethyl alcohol:**

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Biodegradability : Concentration: 10 mg/l  
Result: Readily biodegradable.  
Biodegradation: 84 %  
Exposure time: 20 d

Chemical Oxygen Demand (COD) : 1,990 mg/g

**Bioaccumulative potential****Components:****ethyl acetate:**

Partition coefficient: n-octanol/water : Pow: 5.4  
log Pow: 0.73

**ethyl alcohol:**

Bioaccumulation : Remarks: Does not accumulate in organisms.

**Mobility in soil**

No data available

**Other adverse effects****Components:****ethyl acetate:**

Results of PBT and vPvB assessment : Not fulfilling vPvB (very persistent, very bioaccumulative) criteria.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

UN/ID No. : UN 1993  
Proper shipping name : Flammable liquid, n.o.s.  
(Ethyl Acetate, ethanol)  
Class : 3  
Packing group : II  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

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**IMDG-Code**

UN number	: UN 1993
Proper shipping name	: FLAMMABLE LIQUID, N.O.S. (Ethyl Acetate, ethanol)
Class	: 3
Packing group	: II
Labels	: 3
EmS Code	: F-E, <u>S-E</u>
Marine pollutant	: no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

UN/ID/NA number	: UN 1993
Proper shipping name	: Flammable liquids, n.o.s. (Ethyl Acetate, ethanol)
Class	: 3
Packing group	: II
Labels	: FLAMMABLE LIQUID
ERG Code	: 128
Marine pollutant	: no

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ethyl acetate	141-78-6	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Fire Hazard  
Acute Health Hazard

**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.

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**California Prop. 65**

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

**The ingredients of this product are reported in the following inventories:**

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AICS	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

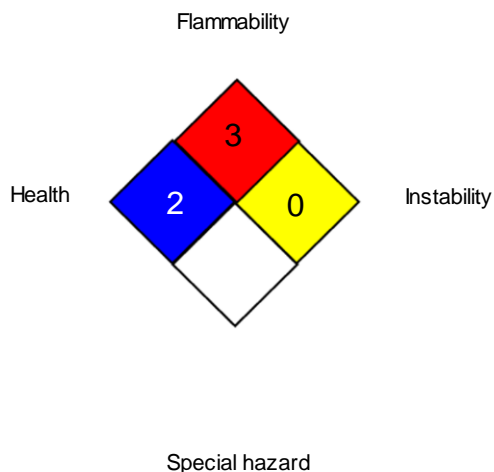
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**SECTION 16. OTHER INFORMATION****Further information**

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## NFPA 704:



## HMIS® IV:

HEALTH	/	2
FLAMMABILITY		3
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

## Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse)

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Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 05/18/2020

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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