MEDICAL CHEMICAL CORPORATION
SINCE 1954

SDS for Ethyl acetate
Catalog # 4992B

Creation date: 04-29-2015 **Revision date: 07-29-2024** **Revision number: 1.05**

Section I - Product Identification

Product: Ethyl acetate.

Intended Uses: A general purpose laboratory reagent.

Uses advised against: Not for food or personal use.

Manufacturer Identification

Medical Chemical Corp.
19430 Van Ness Ave.
Torrance, CA 90501

Customer Service: Phone (310)787-6800
Email. Customerservice@med-chem.com
FAX (310)787-4464

Emergency Telephone Number

CHEMTREC Emergency Response Telephone Number: (800)424-9300. Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

Section II - Hazard Identification

This item is considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquid: Category 2 (H225). Highly flammable liquid and vapor.
Eye damage/eye Irritation: Category 2 (H319). Causes serious eye irritation.
Acute toxicity (Oral): Category 4 (H301). Toxic if swallowed.
Acute toxicity (Inhalation): Category 4 (H331). Toxic if inhaled.
Acute toxicity (Dermal): Category 4 (H311). Toxic in contact with skin.
Specific target organ toxicity (single exposure): (H336). May cause drowsiness or dizziness.

Signal word: Danger.

Hazard statements

According to the harmonized classification and labeling recommended by OSHA and the EU, this substance is a highly flammable liquid and vapor, causes serious eye irritation and may cause drowsiness or dizziness. In case of skin contact immediately remove all contaminated clothing. Rinse with water or shower.

Precautionary statements

P210 Keep away from heat, sparks, open flames and 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 precautions against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling
P280 Wear protective clothes and eye protection.

Safety Ratings

Health: Hazardous *Flammability*: Highly flammable *Reactivity*: Stable *Contact*: Slight
Recommended safety equipment: safety goggles, lab coat and proper gloves

Storage: Keep cool, away from sources of ignition in a well ventilated area.

NFPA Ratings

Health = 2. Can cause temporary incapacitation or residual injury.
Flammability = 4. Will vaporize and burn readily at normal temperatures.
Reactivity = 0. Stable

Potential Health Effects

The toxicology of this compound has not been completely examined.

Inhalation: Ethyl acetate is absorbed through mucous membranes and will produce irritation as well as the same effects as ingestion.

Ingestion: Ingestion will produce CNS disturbance, dizziness, photophobia, headache, stupor, coma and death.

Skin contact: Repeated contact causes defatting of the skin with resultant irritation and flaking.

Eye contact: Causes serious eye irritation.

Chronic Exposure: Unknown.

Aggravation of preexisting conditions: Impaired kidney and liver function may be aggravated by exposure to Ethyl acetate. Preexisting eye, skin, and respiratory conditions may also be aggravated.

Section III - Composition/Information on Components

Ingredients	CAS#	EU/List #	%
Ethyl acetate	141-78-6	205-500-4	100% w/w

Section IV - First Aid Measures

General Advice: Contact a doctor if symptoms persist

Inhalation: Remove from source of exposure and get medical attention for any breathing difficulty.

Ingestion: Do not induce vomiting. Aspiration of Ethyl acetate into the lungs may produce death. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical and immediately call a hospital or poison control center. Get immediate medical attention even if symptoms improve.

Skin Contact: In case of skin contact, remove contaminated clothing and flush with water. Wash affected area with soap and water. Get medical advice if irritation develops.

Eye Contact: In case of eye contact, flush with water for at least 15 minutes and get medical attention.

Section V - Fire Fighting Measures

Fire Extinguishing Media: Alcohol foam, carbon dioxide or dry chemical. Water is ineffective against Ethyl acetate fires but may be used to cool adjacent containers.

Specific Hazards: Risk of vapor traveling to source of ignition and flashing back. Risk of exploding containers when heated. Vapor in air may form explosion risk.

Special information: Pyrolysis will release toxic carbon monoxide, formaldehyde and methanol.

Special protective gear and precautions: Self contained breathing apparatus and protective gear recommended.

Section VI - Accidental Release Measures

Use personal protective gear, remove all sources of ignition, absorb with a suitable absorbent and dispose. Take precautions against static ignition. Should not be released into the environment.

Section VII - Handling and Storage

P403+P233+P102; Store in a well-ventilated place. Keep container tightly closed. Keep out of reach of children.

Section VIII - Exposure Control/Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl acetate	400 ppm TWA	400 ppm TWA	2000 ppm

Legend

ACGIH: American Conference of Governmental Industrial Hygienists.
OSHA: Occupational Safety and Health Administration.
NIOSH: National Institute for Occupational Safety and Health.
IDLH: Immediately dangerous to life or health.

Ventilation System: Local exhaust such as explosion proof chemical fume hoods are recommended. When required, Refer to the ACGIH document, “Industrial Ventilation, a Manual of Recommended Practices” for details about ventilation.

Personal Respirator: Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

Skin protection: Protective gloves are recommended as part of good laboratory practice.

Eye Protection: Laboratory safety goggles or similar products are recommended as part of good laboratory practice.

Section IX - Physical and Chemical Properties

Appearance and Odor: A clear colorless liquid with a fruity odor.

Flash point: -3.0 °C (26.6 °F) TCC
Flammable Limits: LEL 2.2%, UEL 11.5%

Boiling Point: 77 °C (171 °F) @ 1 atm
Boiling point range: No data
Decomposition temperature: No data
Melting point: -119 °F
pH: Not applicable
Vapor pressure (mm Hg): 73 mm @68 °F
Viscosity: No data

Density: 0.90 g/ml @ 22.5 °C
Autoignition temperature: 800 °F
Evaporation Rate: No data
n-Octanol/water partition coefficient log POW: 0.73
Solubility: 0.05 - 0.1 mg/ml @ 70 °F
Vapor density (air = 1): 3.0
Volatile organic carbon (VOC): 900 g/l

Section X - Stability and Reactivity

Stability: Stable under normal conditions.

Hazardous Decomposition Products: Nothing unusual.

Hazardous polymerization: Will not occur.

Incompatibilities: Oxidizers.

Conditions to avoid: heat, flame and sources of ignition.

Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethyl acetate	5.6 g/kg (Rat)	180 g/kg (Rabbit)	45 g/m^3 2 h

Cancer lists

Ingredient	*Known Carcinogenicity?*	*NTP?*	*Anticipated?*	*IARC Category*
Ethyl acetate	no	no	no	none

Section XII - Ecological Information

Ethyl acetate evaporates quickly and are not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption.

Environmental Fate: Biodegradable
Soil Mobility: Unknown
Environmental Toxicity: Low

Toxicity to freshwater fish (fathead minnow):LC50 = 250 mg/l, 96 h
Toxicity to invertebrates (water flea): NOEC = 2.4 mg/l, 96 h
Toxicity to freshwater algae (green algae): NOEC > 100 mg/l, 21 days

Section XIII - Disposal Considerations

Incineration at a licensed chemical disposal facility is the preferred disposal method. Local governments usually restrict the amounts of flammable liquids that may be flushed down the drain. in all cases they usually require that the effluent exiting the building not be flammable. Dispose of contents and container in accord with all applicable regulations.

Section XIV - Transportation Information

Bottles smaller than 32 Fl. Oz. are eligible to be shipped under limited quantity exemptions [49 CFR section 173.150(b)(2) and 173.150(C)].

DOT/IATA Shipping name: Ethyl acetate
DOT Hazard Label: Flammable liquid
Hazard Class: 3 *Packaging Group*: II
DOT/IATA Identification Number: UN1173

IMDG Shipping name: Ethyl acetate
DOT Hazard Label: Flammable liquid
Hazard Class: 3 *Packaging Group*: II
IMDG Identification Number: UN1173

Section XV - Regulatory Information

Chemical Inventory Status

Ingredient	TSCA	EC
Ethyl acetate	Yes	Yes

Federal, State and International Regulations

Ingredient	SARA 302 RQ	SARA 302 TPQ	SARA 313 List	SARA 313 Category	RCRA 261.33	TSCA 8(D)	Ca. Prop 65
Ethyl acetate	No	No	Yes	No	U002	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: Yes

SARA 311/312	
Acute:	Yes
Chronic:	No
Fire:	Yes
Pressure:	No
Reactivity:	No

Section XVI - Other Information

This information is believed to be correct at the time of publication but is not guaranteed as such, nor does it purport to be all inclusive. Medical Chemical Corp. assumes no liability for the accuracy or completeness of the information. The user assumes all responsibility for compliance with federal, state and local laws.

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