

Safety Data Sheet

Document code:	Name of substance or mixture		
SDS-ETHYL ACETATE	ETHYL ACETATE		
	Version: 1.0	Date of approval: USO EXCLUSIVO DE ASEGURAMIENTO DE CALIDAD	Review date : USO EXCLUSIVO DE ASEGURAMIENTO DE CALIDAD
	It replaces: Version 1.0/150823		

SECTION 1. Identification

1.1. GHS product identifier:

Product form: Liquid
Product name: Ethyl Acetate
CAS No: 141-78-6

1.2. Other means of identification:

Acetic ester, Acetic ether, Ethyl ester of acetic acid, Ethyl ethanoate.

1.3. Recommended use of the chemical and restrictions on use:

Solvent. It is used to dissolve varnishes, lacquers, nitrocellulose, silk and artificial leather, perfumes, and photographic films and plates; also as an artificial flavoring agent, contact lens mold release agent and as an extraction solvent.

1.4. Supplier's details:

Industrias Monfel, S.A. de C.V.
Avenida Promoción No. 345
Zona Industrial, 1ª. Sección
San Luís Potosí, S.L.P.
(444)-824-5622

1.5. Emergency phone number:

Emergency number: CHEMTREC USA (800) 424 9300 SETIQ +52 55 5559 1588.

SECTION 2. Hazard identification

2.1. Classification of the substance or mixture:

Hazard class	Hazard category
Flammable liquid	Category 2
Eye irritation	Category 2
Specific target organ toxicity-Single exposure	Category 3

2.2. GHS label elements, including precautionary statements:

Hazard Pictograms



Signal word

Danger

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Hazard statements:

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	May cause drowsiness or dizziness.
P241	Use explosion-proof. (electrical/ventilating/lighting) equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378	IF IN CASE OF FIRE: Use dry chemical powder, alcohol-resistant foam and CO ₂ , to extinguish.
P403+P235	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of content/recipient according to local / regional / national / international regulations.

2.3. Other hazards which do not result in classification:

Information not available.

SECTION 3. Composition/information on ingredients

3.1. Substances:

Chemical identity of the substance: Ethyl acetate.

Common name(s) synonym(s) of the substance: Acetic ester, Acetic ether, Ethyl ester of acetic acid, Ethyl ethanoate.

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Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance: Not available.

3.2. Mixtures:

Not applicable.

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SECTION 4. First-aid measures

4.1. Description of necessary first-aid measures:

- Inhalation:** Remove the person from the exposed area to fresh air immediately. If breathing is difficult, give oxygen. Get medical advice if adverse symptoms will appear.
- Skin contact:** Remove contaminated clothes and shoes immediately. Wash affected area with soap or mild detergent and large amount of water until no evidence of substance remains (15-20 minutes). Get medical advice if adverse symptoms will appear.
- Eye contact:** Wash immediately with plenty of water or normal saline for at least 15 minutes. Keep eyelids open with the finger. Remove the contact lenses, if present. Get medical advice if adverse symptoms will appear.
- Ingestion:** Clean mouth with water, only if the person is conscious. Do not induce vomiting. Get medical advice if adverse symptoms will appear.

4.2. Most important symptoms/effects, acute and delayed:

Irritation eyes, skin, nose, throat; narcosis; dermatitis

4.3. Indication of immediate medical attention and special treatment needed, if necessary:

Treat symptomatically. The treatment of overexposure should be aimed at controlling the symptoms and the patient's clinical condition.

SECTION 5. Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media: Water spray, Carbon dioxide (CO₂), Dry powder, Foam.

Unsuitable extinguishing media: Do not use strong water currents. A strong water current can spread the burning liquid.

5.2. Specific hazards arising from the chemical:

Fire Hazard: Highly flammable: Will be easily ignited by heat, sparks or flames.

Explosion Hazard: Vapors may form explosive mixtures with air. Vapor explosion hazard indoors, outdoors or in sewers.

Reactivity: Nitrates; strong oxidizers, alkalis & acids.

5.3. Special protective actions for fire-fighters:

Precautionary measures fire: Thermal decomposition can lead to release of irritating gases and vapors. Combustible material.

Protection during firefighting: As in any fire, wear self-contained breathing apparatus and full protective gear.

Firefighting instructions: Small fire: Dry chemical, CO₂, water spray or alcohol-resistant foam. Large fire: Water spray, fog or alcohol-resistant foam. Avoid aiming straight or solid

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streams directly onto the product. If it can be done safely, move undamaged containers away from the area around the fire. Fire Involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned master stream devices or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Hazard products: **combustion** Carbon oxides (CO, CO₂). Toxic fumes may be released.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

General measures: Isolate spill or leak area for at least 50 meters. In case large spill, consider initial downwind evacuation for at least 300 meters.

Protective equipment: Use personal protective equipment. Avoid contact with fumes/mists/vapors.

Emergency procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas.

6.2. Environmental precautions:

In case of accidental release in the environment avoid that the substance can reach drains, surface water and ground water.

6.3. Methods and materials for containment and cleaning up:

For containment: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in a clean and dry container for disposal. Large spill: Dike far ahead of liquid spill for later disposal. Water spray may reduce vapor, but may not prevent ignition in closed spaces.

Methods for cleaning up: Use clean, spark-proof tools to collect the absorbed material. Clean the contaminated area with water.

SECTION 7. Handling and storage

7.1. Precautions for safe handling:

General measures: The substance is used under strictly controlled conditions. Handle away from sparkles and flames - sources of ignition

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Hygiene measures: Do not eat, drink and smoke in the working areas. Wash hands after handling the substance. Remove contaminated clothing and protective equipment before entering eating areas

7.2. Conditions for safe storage, including any incompatibilities:

Storage conditions: Store in stainless steel or carbon steel containers. Keep containers closed when not in use. Fixed containers where these substances are stored must have pressure relief devices and flame arresters. Store separately from strong acids and bases.

Incompatible materials: Strong oxidizers

SECTION 8. Exposure controls/personal protection

8.1. Control parameters:

Name	CAS No.	VLE	
		PPT	CT o P
Ethyl acetate	141-78-6	400 ppm	No establecido.

8.2. Appropriate engineering controls

Emergency eyewash stations and safety showers must be available in the immediate vicinity of any potential exposure area. Proper grounding procedures must be followed to prevent static electricity. Gas detectors should be used when flammable gases/vapors may be released. Use explosion-proof equipment. Ensure adequate ventilation, especially in confined areas.

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

Hand protection: Chemical gloves: Butyl rubber, neoprene, nitrile. According to EN 374: level 3. Glove thickness of approximately 0.3 mm and penetration time of approximately 60 minutes.

Eye protection: Safety glasses that fit snugly around the eyes. In addition to glasses, wear a face shield if there is a likelihood of splashes to the face.

Skin and body protection: If skin contact is possible, wear protective clothing including gloves, boots, and head and face protection.

Respiratory protection: A full-face respirator with an organic vapor cartridge is recommended. In case of inadequate ventilation, oxygen-deficient atmosphere, or where exposure levels are unknown, use SCBA.

Additional information: The selection of appropriate personal protective equipment should be based on an assessment of the performance characteristics of the protective equipment in relation to the task(s) to be performed, the conditions present, the duration of use, and the hazards and/or potential hazards that may arise during use.

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SECTION 9. Physicals and chemicals properties

Physical state	Liquid
Colour	Colorless
Odour	Fruity sweet
Melting point/freezing point	-83°C
Boiling point	77 °C
Flammability	No data available
Lower flammability limit	2.2%
Upper flammability limit	11.5%
Flash point	-4°C
Auto-ignition temperature	427 °C
Decomposition temperature	Not determined
pH	5.4
Kinematic viscosity	0.44 cP @25 °C
Solubility	10% a 25°C, in water
Partition coefficient n-octanol/water (log value)	0.73
Vapour pressure	76 mmHg @ 20°C
Density	0.9000 g/cm ³
Relative vapour density	3.0 (aire=1) @ 20°C

SECTION 10. Stability and reactivity

10.1. Reactivity:

Strong oxidizers.

10.2. Chemical stability:

Stable under recommended handling and storage conditions.

10.3. Possibility of hazardous reactions:

Hazardous polymerization will not occur.

10.4. Conditions to avoid:

Direct sunlight, extremely low or high temperatures, heat, hot surfaces, sparks, exposed flames, incompatible materials, and other ignition sources.

10.5. Incompatible materials:

Strong oxidizers.

10.6. Hazardous decompositions products:

Carbon oxides, (CO, CO₂). Toxic or irritating fumes.

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SECTION 11. Toxicological information

11.1. Information on the likely routes of exposure

The substance can be absorbed into the body by inhalation of its vapour.

11.2. Symptoms related to the physical, chemical and toxicological characteristics:

Irritation of the eyes, skin, nose, and throat.

11.3. Delayed and immediate effects and also chronic effects from short-and term exposure:

Germ cell mutagenicity:	Its classification is not possible.
Carcinogenicity:	Its classification is not possible.
Teratogenicity:	Its classification is not possible.
Reproductive toxicity:	Its classification is not possible.
Specific target organ toxicity (single exposure):	Classified, narcotic effects Exposure route: Inhalation. Affected organs: Central Nervous System.
Specific target organ toxicity (repeated exposure):	Its classification is not possible.

11.4. Numerical measure of toxicity (such as acute toxicity estimates):

LD₅₀ and LC₅₀ data:

Ethyl Acetate (141-78-6)	
Acute oral toxicity	LD ₅₀ Oral Rat: 5620 mg/kg
Acute inhalation toxicity	LC ₅₀ Inhalation Rat= >22.5 mg/l t: 6 h
Acute dermal toxicity	LD ₅₀ dermal rabbit > 20mg/kg

SECTION 12. Ecological information

12.1. Toxicity:

Ethyl Acetate (141-78-6)	
Short-term toxicity to fish	LC ₅₀ 230 mg/l, t=96 h - Specie: P. Promelas
Long-term toxicity to fish	NOEC 6.9 mg/l, t=32 d. - Specie: P. Promelas
Short-term toxicity to aquatic invertebrates	EC ₅₀ 165 mg / L, t=48 h Specie: Daphnia magna
Toxicity to microorganisms	EC ₁₂ 650 mg/L t=6 h- Specie: Pseudomonas putida)

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12.2. Persistence and degradability:

The biodegradation of ethyl acetate has been studied in continuous flow activated sludge reactors. Biodegradability over 6 days was evaluated by ultimate BOD analysis compared to TOC and COD values. The ultimate treatment efficiency for ethyl acetate was 99.9% removal; 93% by biodegradation and 7% stripped (volatilized) from the wastewater. Hydraulic retention time in the reactor was 8 hours.

12.3. Bioaccumulative potential:

The substance has a low potential for bioaccumulation (log Kow3). The specific rules for adaptation in column 2 of annex IX of the regulation say that a study for bioaccumulation in aquatic species does not need to be conducted for such substances.

12.4. Mobility in soil:

No additional information available.

12.5. Other adverse effects:

No data available.

SECTION 13. disposal considerations

13.1. Disposal methods:

Waste disposal recommendations:

For disposal of this product, contact an authorized professional service. Containers may still be hazardous even when empty. Continue to take all necessary precautions. Handle empty containers carefully as residual vapors are flammable.

SECTION 14. Transport information

14.1.	<u>UN Number:</u>	1173
14.2.	<u>UN Proper Shipping Name:</u>	Ethyl acetate
14.3.	<u>Transport hazard class(es):</u>	3
14.4.	<u>Packing group:</u>	II
14.5.	<u>Environmental hazard:</u>	No data available
14.6.	<u>Special precautions for use:</u>	No data available
14.7.	<u>Transport in bulk according to IMO instruments:</u>	Ethyl acetate

SECTION 15. Regulatory information

15.1. Safety, health environmental regulation specific for the product in question

The North American Emergency Response Guide for this product is No. 129.

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SECTION 16. Other information

NFPA 704



The information is considered correct but is not exhaustive and will be used solely as guidance, which is based on current knowledge of the chemical or mixture and is applicable to appropriate safety precautions for the product.

Monfel Industries does not present this document as an explicit or implied warranty of the safe use of this material. It is the user's responsibility to use this material safely, and must comply with all applicable safety, health and environmental laws and regulations. The information contained in this document is accurate in accordance with our experience, but it is the user's responsibility to adapt and extend it in accordance with its use, handling, process, storage and final disposal, in compliance with applicable laws and regulations. The user should consider that the above-mentioned hazards are not the only ones that exist and that the effects can be aggravated by the presence of other materials.

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DOCUMENT CHANGE HISTORY

Version	Date	Change history	Reason for change	Monfel signature
1.0	08/15/23	New document	Document publication	SCGM 081523
1.0	02/18/26	Format change	Adaption to ISO9001:2015	SCGM 021826