

Ethyl Acetate

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name	Ethyl Acetate		
Synonyms	Acetidin, Acetic acid ethyl ester, Ethyl acetic ester		
Use	Flavors and Fragrances, Industrial use, Intermediate, Paint and Coatings, Pharmaceutical, Process/Extraction Solvent, Process material, Raw material for chemical processes, Raw material for industry, Raw material for pharmaceuticals, Solvent		
Company	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)		
Address	12120 Wickchester Lane Houston TX 77079		
Telephone	CHEMTREC North America Transportation Emergency (24-hr)		(800) 424-9300
	CHEMTREC World Wide		(703) 527-3887
	Other Emergencies (24-hr)		(337) 494-5142
	SDS and Product Information (8:00am-4:30pm CST)		(281) 588-3491
	Health and Safety Information (7:30am-4:00pm CST)		(281) 588-3492
E-mail address	SasolElectronicSDS@us.sasol.com		

SECTION 2 HAZARDS IDENTIFICATION

OSHA/GHS Hazards	Flammable liquids	Category 2
	Eye irritation	Category 2A
	Specific target organ toxicity - single exposure	Category 3 (Narcotic effects)

LABEL ELEMENTS

Hazard symbols



Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.
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.

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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.
 P280 Wear protective gloves/ eye protection/ face protection.
 P264 Wash skin thoroughly after handling.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P271 Use only outdoors or in a well-ventilated area.

Response P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
 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.
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.

Storage P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Ethyl Acetate	141-78-6	100

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

SECTION 4 FIRST AID MEASURES

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

Ingestion If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion Vapours may form explosive mixture with air. Flash back possible over considerable distance. Use water spray to disperse the vapors. NFPA Class 1B flammable liquid.

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Protective equipment and precautions for firefighters In the event of fire, wear self-contained breathing apparatus.

Further information Keep containers and surroundings cool with water spray. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

SECTION 7 HANDLING AND STORAGE

Safe handling advice Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from heat and sources of ignition.

Storage/Transport pressure Ambient

Load/Unload temperature Ambient

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines). Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment.

PERSONAL PROTECTIVE EQUIPMENT

Eyes Chemical resistant goggles must be worn., Face-shield

Skin Wear suitable protective clothing, gloves and eye/face protection.

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Inhalation Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

<u>Components</u>	<u>Exposure limit(s)</u>
Ethyl Acetate	ACGIH TLV (8-hour) 400 ppm 1,400 mg/m ³ OSHA PEL (Permissible Exposure Limit) 400 ppm 1,400 mg/m ³

PEL= Permissible Exposure Limits
TLV= Threshold Limit Value
EL= Excursion Limit

TWA= Time Weighted Average (8 hr.)
STEL= Short Term Exposure Limit (15 min.)
WEEL= Workplace Environmental Exposure Level

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid;
Colour	Clear, colorless
Form	liquid
Odour	ester-like
Odour Threshold	No data available
Flash point	-4 °C, 25 °F;
Flammability	Upper explosion limit: 11.5 %(V) Lower explosion limit: 2.1 %(V)
Boiling point/boiling range	77 °C, 170 °F;
Melting point/range	-84 °C, -119 °F;
Auto-ignition temperature	426 °C, 799 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	97 hPa @ 20 °C, 68 °F;
Vapour density	1.2

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Density	0.90 g/cm ³ @ 20 °C, 68 °F;
Specific gravity	No data available
Water solubility	completely miscible
Viscosity	No data available
Viscosity, dynamic	0.45 mPa.s @ 20 °C, 68 °F;
pH	Not applicable
Evaporation rate	No data available
Partition coefficient: n-octanol/water	log Pow: 0.68; @ 25 °C, 77 °F;

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Stable under recommended storage conditions.
Chemical stability	No decomposition if stored and applied as directed.
Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	None known.
Materials to avoid	Alkali metals Strong oxidizing agents
Hazardous polymerisation	None known.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity	LD50 Rabbit: > 2,000 mg/kg(literature value)
Acute inhalation toxicity	No data available
Acute oral toxicity	LD50 Rat: > 2,000 mg/kg (literature value)
Skin corrosion/irritation	(Rabbit) Not irritating, (literature value)

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Serious eye damage/eye irritation	(Rabbit) slight irritation, (literature value)
Respiratory or skin sensitisation	Guinea pig: not sensitizing; Maximisation Test OECD Test Guideline 406
Germ cell mutagenicity	<p>Genotoxicity in vitro: Type: Ames test System: Salmonella typhimurium; with and without metabolic activation Result: In vitro tests did not show mutagenic effects (literature value)</p> <p>Genotoxicity in vivo: No data available</p> <p>Assessment Mutagenicity: Based on available data, the classification criteria are not met.</p>
Reproductive toxicity	<p>Reproductive toxicity: No data available</p> <p>Assessment Reproductive toxicity: No data available</p> <p>Teratogenicity: No data available</p> <p>Assessment teratogenicity: No data available</p>
STOT - single exposure	The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.
STOT - repeated exposure	No data available
Aspiration toxicity	No data available
Carcinogenicity	Assessment carcinogenicity: Contains no ingredient listed as a carcinogen

SECTION 12 ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 100 mg/l; semi-static test (literature value)
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Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 48 hours: > 100 mg/l; static test (literature value)
Toxicity to algae	EC50 (Desmodesmus subspicatus (green algae)) 72 hours: > 100 mg/l; static test (literature value)
Chronic toxicity to aquatic invertebrates	NOEC (Daphnia magna (Water flea)) 21 d: > 1 - 10 mg/l; semi-static test; OECD Test Guideline 211 (literature value)
Biodegradation	Readily biodegradable. OECD Test Guideline 301B (28 d): > 60 % (literature value)
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).
Mobility in soil	No data available
Other adverse effects	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).;

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Code	U112 - Ethyl Acetate - (RQ 5,000 LB).D001 - Ignitability (RQ 100 LB). This product has the RCRA characteristic of ignitability. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification.
Disposal methods	Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.
Empty containers.	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. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

SECTION 14 TRANSPORT INFORMATION

DOT	UN 1173, Ethyl Acetate, 3, II When shipped in quantities greater than 5,000 lbs, RQ must be added to the shipping description.
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IATA UN 1173, Ethyl Acetate, 3, II
When shipped in quantities greater than 5,000 lbs, RQ must be added to the shipping description.

IMDG UN 1173, Ethyl Acetate, 3, II
When shipped in quantities greater than 5,000 lbs, RQ must be added to the shipping description.

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

Remarks No data available

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Inventory Listing

Components

Acetic acid ethyl ester

CAS-No.

141-78-6

SARA 302 Status

Components

CAS-No.

Weight percent

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Classification

"Fire hazard", "Immediate (acute) health hazard"

SARA 313 Chemical

Components

CAS-No.

Weight percent

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.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components

Acetic acid ethyl ester

Reportable Quantity

5,000 LB

Weight percent

100 %

INTERNATIONAL REGULATIONS

WHMIS Classification

Flammable liquids	Category 2
Eye irritation	Category 2A
Specific target organ toxicity - single exposure	Category 3 (Narcotic effects)

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European Union

Classification according to Regulation (EU) 1272/2008.

Flammable liquids, Category 2

Eye irritation, Category 2

Specific target organ toxicity - single exposure, Category 3 (Narcotic effects)

Australia. Inventory of Chemical Substances (AICS)	Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
Japan. ISHL - Inventory of Chemical Substances	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canada. Non-Domestic Substance Listing (NDSL)	Not listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Listed
Korea. Existing Chemicals Inventory (KECI)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico	Listed
New Zealand. Inventory of Chemical Substances	Listed
Switzerland	Listed
Taiwan. National Existing Chemical Inventory (NECI)	Listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65

Components

none

CAS-No.

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
HMIS®	2	3	0
NFPA	2	3	0



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