

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: **ETHYL ACETATE**  
Supplier: **LABSCAN LIMITED,  
T24-26 STILLORGAN INDUSTRIAL PARK, STILLORGAN,  
CO. DUBLIN, IRELAND.**  
Emergency telephone number: **+353 1 295 2684** Fax No: **+353 1 295 2685**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Identification of the preparation

Chemical Name	CAS-No	EEC-No	Class	Weight %
ETHYL ACETATE	141-78-6	607-022-00-5	F R11; Xi R36 R66 R67	100

### 3. HAZARDS IDENTIFICATION

**Most important hazards:** Highly flammable.  
Irritating to eyes, respiratory system and skin.

**Specific hazards** Liquid causes severe inflammation of conjunctiva and may cause severe damage of the cornea.  
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.  
Respiration of solvent vapour may cause dizziness.

### 4. FIRST AID MEASURES

**General advice:** Show this safety data sheet to the doctor in attendance.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus. Consult a physician after significant exposure.

**Skin contact:** Remove contaminated clothing and wash affected skin with soap and water. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.

**Eye contact:** If the substance has got into the eyes, wash out with water or saline solution for at least 15 minutes. Keep eye wide open while rinsing. Consult a physician for severe cases.

**Ingestion:** Clean mouth with water and drink afterwards plenty of water.  
Subsequently administer: activated charcoal (20-40g in 10% slurry).  
Do not induce vomiting without medical advice. If signs of poisoning appear, treat as for inhalation. Consult a physician for severe cases.  
Laxative: Sodium sulphate (1 tablespoon/1/4 l water).

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**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media:**

Extinguish with carbon dioxide, dry chemical, foam or waterspray.

**Extinguishing media which must not be used for safety reasons:**

Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards:**

Vapours may form explosive mixtures with air. Flash back possible over considerable distance.

**Special protective equipment for firefighters:**

Wear a positive-pressure supplied-air respirator / full protective flameproof clothing.

**Specific methods:**

Standard procedure for chemical fires. Water mist may be used to cool closed containers.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions:**

Evacuate personnel to safe areas. Remove all sources of ignition. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges.

**Environmental precautions:**

Do not let product enter drains. Contain or absorb leaking liquid with sand or earth. Prevent liquid entering sewers, basements and workpits; vapour may create explosive atmosphere. If substance has entered a water course or sewer or contaminated soil or vegetation, advise police.

**Methods for cleaning up:**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Transfer to covered steel drums. Contact waste disposal services. Dispose of as special waste in compliance with local and national regulations.

**7. HANDLING AND STORAGE****Handling:**

Use only in area provided with appropriate exhaust ventilation (under a hood). Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Take precautionary measures against static discharges. Keep away from open flames, hot surfaces and sources of ignition.

**Storage:**

Keep container tightly closed in a dry and well-ventilated place. (+15 - +25C). Keep away from heat and sources of ignition. Electrical equipment should be protected to the appropriate standard. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Store in original container

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Chemical Name:****National occupational exposure limits:**

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EH40: OES 400ppm(1400mg/m<sup>3</sup>) 8h TWA**Engineering measures to reduce exposure**

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Ventilation hoods and fans required when working with organic solvents or in hot melt applications.

**Personal protection equipment:**

- **Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.
- **Hand protection:** solvent-resistant gloves (butylrubber) The material should comply with 89/686/EEC and EN374.
- **Eye protection:** Goggles giving complete protection to eyes.
- **Skin and body protection:** Chemical resistant apron / flame retardant antistatic protective clothing, heavy duty work shoes.

**Hygiene measures:**

Keep working clothes separately. Keep away from food, drink and animal feeding stuffs.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Formula:</b>	<b>CH<sub>3</sub>COOC<sub>2</sub>H<sub>5</sub></b>		
<b>Form:</b>	liquid		
<b>Colour:</b>	colourless, clear		
<b>Odour:</b>	characteristic, sweet		
<b>pH:</b>	( °C)	no data available	( g/l H <sub>2</sub> O)
<b>Boiling point/range:</b>		76-77	°C
<b>Melting point/range:</b>		-84	°C
<b>Decomposition temperature:</b>		no data available	°C
<b>Flash point:</b>		-4	°C
<b>Autoignition temperature:</b>		460	°C
<b>Flammability (solid, gas):</b>	Classification " Highly flammable "		
<b>Explosive properties:</b>			
<b>Explosion limits:</b>	- lower	2.1	vol. %
	- upper	11.5	vol. %
<b>Oxidizing properties:</b>	no data available		
<b>Vapour pressure:</b>	( °C)	103	hPa
<b>Relative density:</b>	( 20 °C) >=	0.899	
		<= 0.901	
<b>Bulk density:</b>		900.7	kg/m <sup>3</sup>
<b>Solubility:</b>			
<b>Water solubility</b>	( 20 °C)	61	g/l)
<b>Solubility in other solvents</b>	miscible with most organic solvents		

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Partition coefficient (n-octanol/water)

log P<sub>OW</sub> = 0.60

Viscosity:

( °C)

no data available

mPa.s

**10. STABILITY AND REACTIVITY****Stability:**

Stable at normal conditions.  
Stable under recommended storage conditions.

**Conditions to avoid:**

Keep away from heat and sources of ignition.  
Protect from light.

**Materials to avoid:**

Strong oxidizing agents, alkali metals, fluorine, hydrides,  
water with air and light, fuming sulphuric acid, lithium  
aluminium hydride, chlorosulfonic acid.

**Hazardous decomposition products:**

Acetic acid.  
Burning produces irritant fumes ( carbon oxides ).

**11. TOXICOLOGICAL INFORMATION****Acute toxicity:****Inhalation:**

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Passage to the lung can result in chemical pneumonitis.

LD50/oral/rat = 5620mg/Kg

**Skin contact:**

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

LD50/dermal/rabbit = &gt;18000mg/Kg

**Eye contact:**

Liquid causes severe inflammation of conjunctiva and may cause severe damage of the cornea.

**Ingestion:**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

LC50/inhalation/8h/rat = 1600 ppm (V).

**Sensitization:**

Irritating to eyes, respiratory system and skin.

**Long term toxicity:**

Danger of serious damage to health by prolonged exposure to solvent.

**Chronic toxicity:**

Not mutagenic in AMES Test. Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

**12. ECOLOGICAL INFORMATION****Mobility:**

Volatile / gaseous

Product name: **ETHYL ACETATE****Persistence / degradability:**

Readily biodegradable, according to appropriate OECD test: 100%/28d  
 Biochemical oxygen demand within 5 days (BOD5) = 36-68% of Theoretical oxygen demand (ThOD).  
 BOD: 0.293, COD: 1.816, TOD: 1.82.

**Bioaccumulation:** No appreciable bioaccumulation is expected logP(o/w):  
 0.73.

**Ecotoxicity:** LC50/96h/bluegill sunfish = > 200mg/l  
 LC50/24h/daphnia = 717 mg/l/48h  
 Toxicity to bacteria = 2900mg/l/16h  
 Algal toxicity: 3300 mg/l/48h

**13. DISPOSAL CONSIDERATIONS****Waste from residues / unused products:**

If recycling is not practicable, dispose of in compliance with local regulations.  
 Can be incinerated, when in compliance with local regulations.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal.  
 Empty containers can be landfilled after cleaning, when in compliance with local regulations.

**14. TRANSPORT INFORMATION****ADR/RID**

<b>Proper shipping name:</b>	ETHYL ACETATE	<b>Item:</b>	3(b)
<b>Class:</b>	3	<b>HI/UN No:</b>	33/1173
<b>Packaging group:</b>	II		

**IMO**

<b>Proper shipping name:</b>	ETHYL ACETATE	<b>IMDG Page:</b>	3220
<b>Class:</b>	3.2	<b>MFAG:</b>	330
<b>EmS:</b>	3-07	<b>UN-No:</b>	1173
<b>Packaging group:</b>	II		
<b>Marine pollutant:</b>	not		

**ICAO**

<b>Proper shipping name:</b>	ETHYL ACETATE	<b>UN/ID No:</b>	1173
<b>Class:</b>	3		
<b>Packaging group:</b>	II		

**15. REGULATORY INFORMATION****Classification according to European directive on classification of hazardous preparations 2001/58/EC**

- **Contains:** ETHYL ACETATE

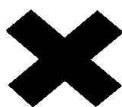
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**- Symbol(s):**

F - Highly flammable.



Xi - Irritant

**R -phrase(s):**

R11 - Highly flammable.

R36 - Irritating to eyes.

R66 - Repeated exposure may cause skin dryness or cracking.

R67 - Vapours may cause drowsiness and dizziness.

**S -phrase(s):**

S16 - Keep away from sources of ignition - No smoking.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S33 - Take precautionary measures against static discharges.

**16. OTHER INFORMATION****Recommended restrictions:**

Take notice of labels and material safety data sheets for the working chemicals.

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

**Recommended use:**

General purpose solvent.

**Further information:**

Contact Labscan Limited

**REVISION DATE:****20/08/2002**

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.