

## MATERIAL SAFETY DATA SHEET

Ref. No. : LS3511	Issue date : October 2003	Issued by LABSCAN ASIA
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**PRODUCT NAME : ETHYL ACETATE**

### COMPANY DETAILS

**Company Name** LABSCAN ASIA CO., LTD.  
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### HAZARDS IDENTIFICATION

<b>Product Name</b>	ETHYL ACETATE		
<b>Proper Shipping Name</b>	ETHYL ACETATE		
<b>Other Names</b>	<u>Name</u>	<u>Grade</u>	<u>Labscan Code</u>
	ETHYL ACETATE	AR	A3511
	ETHYL ACETATE	HPLC	C2513
	ETHYL ACETATE	PESTI	P5511
	ETHYL ACETATE	ANHYDRO	H6511
	ETHYL ACETATE	SPECTRO	S7511
	Acetic acid ethyl ester		
	Acetic Ether		
	Ethyl ethanoate		
	Acetic ester		
<b>UN No.</b>	1173		
<b>D.G. Class</b>	3.2		
<b>Packaging Group</b>	II		
<b>Hazchem Code</b>	3[Y]E		
<b>Poisons schedule</b>	Not scheduled		
<b>EEC-No</b>	607-022-00-5		
<b>Class</b>	F; R11; Xi R36 R66 R67		
<b>CAS-No</b>	141-78-6		
<b>Weight</b>	100%		
<b>Most important hazards</b>	Highly flammable. Irritating to eyes, respiratory system and skin.		

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**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.

### FIRST AID

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

**Inhalation:** Move to fresh air in case of accidental inhalation of vapors. 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..  
Do not induce vomiting without medical advice. If signs of poisoning appear, treat as for inhalation. Consult a physician for severe cases.

### FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**  
Extinguish with carbon dioxide (CO<sub>2</sub>), dry chemical, foam and water spray.

**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:**  
Vapors may form explosive mixture 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.

**Hazchem Code:** 3[Y]E

### 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:** Contain or absorb leaking liquid with sand or earth. Prevent liquid entering sewers, basements and work pits vapor 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, universal binder, sawdust). Transfer to covered steel drums. Contact waste disposal services. Dispose of as special waste in compliance with local and national regulations.

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### SAFE HANDLING AND STORAGE INFORMATION

**Handling:** Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors 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, cool and well-ventilated place. 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.

### EXPOSURE CONTROLS / PERSONAL PROTECTION

**Chemical Name**  
ETHYL ACETATE

**National occupational exposure limits**  
EH40: OES 400 ppm (1400 mg/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:** PVC or other plastic material gloves.
- 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.

### PHYSICAL DATA AND OTHER PROPERTIES

<b>Formula</b>	CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub>
<b>Form</b>	Liquid,
<b>Colour</b>	Clear, colourless,
<b>Odour</b>	Characteristic, sweet
<b>pH</b>	no data available
<b>Boiling point/range</b>	76-77°C
<b>Melting point/range</b>	-84°C
<b>Decomposition temperature</b>	no data available
<b>Flash point</b>	-4°C
<b>Autoignition temperature</b>	460°C
<b>Flammability (solid, gas)</b>	Classification "Highly flammable".
<b>Explosion limits</b>	lower 2.1 vol. % Upper 11.5 vol. %
<b>Oxidizing properties</b>	no data available

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### PRODUCT NAME : ETHYL ACETATE

Vapour pressure	103 hPa
Relative density	(20°C) $\geq 0.899$ $\leq 0.901$
Bulk density	900.7 kg/m <sup>3</sup>
Solubility:	
Water solubility	(20°C) 61 g/l
Solubility in other solvents	miscible with most organic solvents
Partition coefficient (n-octanol/water)	log P <sub>ow</sub> = 0.60
Viscosity	no data available

### STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at normal conditions. Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	Keep away from heat and sources of ignition. Protect from light. Protect from light.
<b>Materials to avoid:</b>	Strong oxidizers, alkali metals and alkaline earth metals may cause fires or explosions. Strong acids and strong bases.
<b>Hazardous decomposition products:</b>	Burning produces irritant fumes, carbon oxides (CO <sub>2</sub> ). Acetic acid.

### TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	<b>Inhalation:</b> Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. LD50/oral/rat = 5600 mg/kg <b>Skin contact:</b> Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. LD50/dermal/rabbit =>18000 mg/kg. <b>Eye contact:</b> Liquid causes severe inflammation of conjunctiva and may cause severe damage of the cornea. <b>Ingestion:</b> Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. LC50/inhalation/8h/rat = 1600 ppm (V).
<b>Sensitization:</b>	Irritant to eyes, respiratory system and skin.
<b>Long term toxicity:</b>	Danger of serious damage to health by prolonged exposure to solvent.
<b>Chronic toxicity:</b>	Repeated and prolonged exposure to solvents may cause brain and nervous system.

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### ECOLOGICAL INFORMATION

**Mobility:** Volatile / gaseous.

**Persistence / degradability:**  
 Readily biodegradable, according to appropriate OECD test.  
 Biochemical oxygen demand within 5 days (BOD5) = 36-68% of theoretical oxygen demand (ThOD)

**Bio accumulation:** No data is available on the product itself.

**Ecotoxicity:**  
 LC50/96h/bluegill sunfish = > 200 mg/l.  
 LC50/24h/daphnia = > 700 mg/l.  
 Toxicity to bacteria = 650 mg/l.

### 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 land filled after cleaning, when in compliance with local regulations.

### TRANSPORT INFORMATION

<b>UN-No</b> .....1173  <b>ADR/RID</b> <b>Class</b> .....3.0 <b>TREM-CARD</b> .....LAB30TRM30 <b>Proper shipping name</b> .....ETHYL ACETATE  <b>IMO</b> <b>Class</b> .....3.2 <b>MFAG</b> .....330 <b>Proper shipping name</b> .....ETHYL ACETATE  <b>ICAO</b> <b>Class</b> .....3.0 <b>Proper shipping name</b> .....ETHYL ACETATE	<b>Marine pollutant</b> .....not applicable  <b>Item</b> .....3(b) <b>HI/UN No</b> .....33/1173  <b>EmS</b> .....3-07 <b>IMDG Page</b> .....3220  <b>UN/ID No</b> .....1173 <b>Packaging group</b> .....II
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### REGULATORY INFORMATION

**Classification according to European directive on classification of hazardous preparations 90/492/EEC**

**Contains** ETHYL ACET  
**Symbol(s)** F – Highly flammable



Highly flammable

<b>R – phrase(s)</b>	R11	- Highly flammable.
	R36	- Irritating to eyes.
	R66	- Repeated exposure may cause skin dryness or cracking.
	R67	- Vapours may cause drowsiness and dizziness.
<b>S – phrase(s)</b>	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.

**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.

### CONTACT POINT

**Contact** Australia : Lomb Scientific (Aust) Pty, Ltd.  
 20 Mangrove Lane, Taren Point, N.S.W. Australia 2229  
 Tel : 612-853-66200, 612-8536-6218  
 Fax : 612-853-66250

