



## SAFETY DATA SHEET

Date of issue: 08/02/02

### 1. Identification of the substance/preparation and of the company/undertaking

#### *Identification of the product*

Catalogue No: 10108

ID No.: 1010800

Product name: **Ethyl acetate, AnalaR® (ethyl ethanoate)**

Use of the substance/preparation: General chemical reagent

#### *Manufacturer/supplier identification*

Company: VWR International Ltd  
Hunter Boulevard, Magna Park, Lutterworth, Leicestershire, England, LE17 4XN  
Telephone : + 44 (0) 1455 558600      Telefax : + 44 (0) 1455 558586

Emergency telephone No.: + 44 (0) 1202 669700

### 2. Composition/information on ingredients

#### *Chemical characterization*

Organic solvent

Product name: Ethyl acetate

CAS number: 141-78-6

EC-No.: 205-500-4

Molecular formula:  $\text{CH}_3\text{COOC}_2\text{H}_5 = 88.11 \text{ g/mol}$

### 3. Hazards identification

Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

### 4. First aid measures

- Eye contact: Irrigate thoroughly with water for at least 10 minutes. If discomfort persists, obtain medical attention.
- Inhalation: Remove from exposure, rest and keep warm. In severe cases obtain medical attention.
- Skin contact: Wash off thoroughly with soap and water. Remove contaminated clothing and wash before re-use. In severe cases, OBTAIN MEDICAL ATTENTION.
- Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

### 5. Fire-fighting measures

#### *Special risks:*

Highly flammable. Vapour/air mixture explosive. Vapours heavier than air.

#### *Suitable extinguishing media:*

Foam, dry powder, carbon dioxide or vaporising liquids

Wear chemical protection suit and respiratory protective equipment immediately. Prevent fire fighting water entering watercourses or ground-water.

## **6. Accidental release measures**

Shut off all sources of ignition. Wear appropriate protective clothing.

Absorb on an inert absorbent, (e.g. BDH Spillage absorption granules), transfer to a suitable container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.

For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

## **7. Handling and storage**

### ***Handling:***

Take precautions against static discharge. All electrical equipment must be flameproofed. Work under fume extractor. Do not inhale substance. Change contaminated clothing. Do not empty into drains.

Unsuitable working materials: various plastics

### ***Storage:***

Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight and moisture. Store small containers in suitable flammable liquid storage cabinets when not in use. Larger drums (200l) must be kept in purpose-built stores.

## **8. Exposure controls/personal protection**

### ***UK Exposure Limits:***

WEL - Ethyl acetate:

Long term: 200 ppm    Short term: 400 ppm

### ***Personal protective equipment:***

As appropriate to the situation and the quantity handled. Engineering methods to control or prevent exposure are preferred. Methods could include process enclosure or mechanical ventilation.

- Respirator: Self-contained breathing apparatus
- Ventilation: Fume cupboard, flameproof
- Gloves: Butyl rubber (Change gloves regularly.); PE/EVAL (Silver Shield).
- Eye Protection: Goggles or face-shield
- Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

## **9. Physical and chemical properties**

### ***General information:***

Form: liquid  
Colour: colourless

Odour: pleasant fruit-like

**Health, safety and environmental information:**

Melting temperature	-84°C
Boiling temperature	77°C
Density(g/ml)	0.90
Vapour pressure	13.3 kPa, (27°C)
Relative vapour density:	3.04
Solubility in water	85.3 g/l (20°C)
Flash point	-4°C
Explosion limits:	lower: 2.2%
	upper: 11%
Auto-ignition temperature	460°C
Viscosity:	0.44 mPas (20°C)
Log P(o/w):	0.73
Additional data:	Refractive index: 1.3724 (20°C)

**10. Stability and reactivity**

Stable.

Unsuitable working materials: various plastics.

Substances to be avoided

alkali metals, fluorine, hydrides, strong oxidizing agents, water with air light.

Hazardous decomposition products

Ethanol, acetic acid.

**11. Toxicological information**

- After inhalation of vapours: (>/= 750ppm) drowsiness. After the uptake of large quantities: damage to respiratory tract.

After ingestion and inhalation: mucosal irritation, lack of appetite, headache.

In high concentrations: salivation, nausea, vomiting, narcosis, respiratory paralysis.

- After skin contact: Degreasing effect on the skin, possibly followed by secondary inflammation.

- After eye contact: In high concentrations: (4000 ppm) irritant effect

After long-term exposure to the chemical: Sensitization with allergic manifestations.

**Further data**

LD50 (oral, rat): 5620 mg/kg.

LC50 (inhalation, rat): 200 g/m<sup>3</sup>.

Eye irritation test (rabbit): moderate irritant effect

Odour threshold: 20 - 245 ppm

We have no evidence of carcinogenic effects. We have no evidence of mutagenic or teratogenic effects.

**12. Ecological information**

Low aquatic toxicity. Bioaccumulation potential: low (Log Pow <2). Biological degradability: good.

Algal toxicity: ECo (Microcystis aeruginosa): 550 mg/l/8d

Risk of formation of explosive vapours above water surface. Do not allow to enter drinking water supplies, waste water, or soil!

### 13. Disposal considerations

Chemical residues are generally classified as hazardous or special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

When recovery and recycling is not possible, incineration in a high temperature incinerator is the recommended method of disposal.

### 14. Transport information

UN-No.: 1173

Class: 3

Packaging group: II

Proper shipping name: ETHYL ACETATE

### 15. Regulatory information

#### *Labelling according to EC directives*

Symbol(s): F Xi Highly flammable. Irritant.

R-phrases: R11-36-66-67

Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

S-phrases: S16-26-33

Keep away from sources of ignition - No smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take precautionary measures against static discharges.

EC-No.: 205-500-4

#### *Local Regulations*

Within the UK, the use of this material must be assessed under the Dangerous Substances and Explosive Atmospheres (DSEAR) Regulations.

U.K. Transport Category 2

Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations.

### 16. Other information

References: HSE Review (EH64 2001) - Ethyl acetate (UK)

Revision.

Supersedes edition of: 28/06/01

Reason for alteration: Changes in Section : 11,16.

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