

# 2-ETHOXYETHYL ACETATE

0364

November 2003

CAS No: 111-15-9

RTECS No: KK8225000

UN No: 1172

EC No: 607-037-00-7

Ethylene glycol monoethyl ether acetate

2-Ethoxyethanol acetate

Acetic acid, 2-ethoxyethyl ester

Cellosolve acetate

Ethyl glycol acetate

$C_6H_{12}O_3$  /  $CH_3COOCH_2CH_2OCH_2CH_3$

Molecular mass: 132.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Flammable.	NO open flames, NO sparks, and NO smoking.	Powder, alcohol-resistant foam, water spray, carbon dioxide.
<b>EXPLOSION</b>	Above 51.1/C explosive vapour/air mixtures may be formed.	Above 51.1/C use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.
<b>EXPOSURE</b>		<b>AVOID ALL CONTACT!</b>	
<b>Inhalation</b>	Dizziness. Drowsiness. Headache. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>Skin</b>	MAY BE ABSORBED! Dry skin. (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>Eyes</b>	Redness.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Nausea. Vomiting. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

## SPILLAGE DISPOSAL

Ventilation. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)

## PACKAGING & LABELLING

**EU classification**  
 T Symbol  
 R: 60-61-20/21/22  
 S: 53-45  
 Note: E  
**UN classification**  
 UN Hazard Class: 3  
 UN Pack Group: III

## EMERGENCY RESPONSE

Transport Emergency Card: TEC (R)-30S1172  
 NFPA Code: H1; F2; R

## SAFE STORAGE

Fireproof. Separated from strong oxidants, strong bases, strong acids. Keep in the dark.

**IPCS**

International Programme on Chemical Safety



Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission ©  
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SEE IMPORTANT INFORMATION ON THE BACK.

### IMPORTANT DATA

**Physical State; Appearance**

COLOURLESS LIQUID, WITH CHARACTERISTIC ODOUR.

**Chemical dangers**

The substance can presumably form explosive peroxides. Reacts with strong acids, strong bases, strong oxidants.

**Occupational exposure limits**

TLV: 5 ppm, 27 mg/m<sup>3</sup>, as TWA; (skin); BEI issued (ACGIH 2005).  
MAK: (Sum ethylene glycol monoethyl ether & its acetate): 2 ppm, 11 mg/m<sup>3</sup>; skin absorption (H); Peak limitation category: II(8); Pregnancy risk group: B; (DFG 2007).

**Routes of exposure**

The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.

**Inhalation risk**

A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20/C.

**Effects of short-term exposure**

The vapour is mildly irritating to the eyes. The substance may cause effects on the blood, resulting in lesions of blood cells and kidney impairment at high levels. The substance may cause effects on the central nervous system. Exposure far above the OEL may result in unconsciousness.

**Effects of long-term or repeated exposure**

The liquid defats the skin. The substance may have effects on the blood, resulting in lesions of blood cells, anaemia and kidney impairment. May cause toxicity to human reproduction or development.

### PHYSICAL PROPERTIES

Boiling point: 156/C  
Melting point: -62/C  
Relative density (water = 1): 0.97 (at 20/C)  
Solubility in water, g/100 ml at 20/C: 23  
Vapour pressure, kPa at 20/C: 0.27  
Relative vapour density (air = 1): 4.7

Relative density of the vapour/air-mixture at 20/C (air = 1): 1.01  
Flash point: 51.1/C c.c.  
Auto-ignition temperature: 379/C  
Explosive limits, vol% in air: 1.3-14  
Octanol/water partition coefficient as log Pow: 0.24

### ENVIRONMENTAL DATA

The substance is harmful to aquatic organisms.

### NOTES

Check for peroxides prior to distillation; eliminate if found.  
Card has been partially updated in January 2008: see Occupational Exposure Limits.

### ADDITIONAL INFORMATION

#### LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information