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Ethyl acetate (N33)

1. Product and Company identification

Trade Name:	Supplier:
Ethyl acetate (N33)	Alfa Laval Lund AB
	Box 74
Product Type:	SE-221 00 Lund
Cleaning agent and solvent	Sweden
	Tel: +46 46 36 65 00
Emergency number: +46 8 33 70 43	

2. Composition and Information on the Components

Hazardous ingredient	Weight-%	CAS No	Classification	Risk Phrases
Acetic acid ethyl ester	100	141-78-6	F, Xi	R11-36-66-67
See section 16 for explanation to R-phrases.				

3. Hazard Identification

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

4. First Aid Measurements

First aid – Skin contact	Wash off with plenty of water. Remove contaminated clothing.
First aid – Eye contact	Rinse out with plenty of water for at least 5 minutes with the eyelid held wide open. Summon eye specialist.
First aid – If Swallowed	Immediately make victim drink plenty of water. Risk of aspiration! Do not induce vomiting. No milk. No digestible oils. Keep airways free. Laxative: give sodium sulphate. Give liquid paraffin. Summon doctor.
First aid – Inhalation	Fresh air. If necessary apply mouth to mouth resuscitation or mechanical ventilation. Keep airways free. Summon doctor.

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5. Fire Fighting Measurements

Extinguishing media	Powder, foam.
Special hazards of product	Combustible. Vapours heavier than air. Formation of exposable mixtures possible with air. Keep away from sources of ignition. Development of hazardous combustion gases or vapours in the event of fire. The following may develop in event of fire: acetic acid.
Protective equipment for fire fighting	Do not stay in dangerous zone without suitable protection clothing and self-contained breathing apparatus.
Other information	Take measures to prevent electrostatic charging. Cool container with spray water from a safe distance. Prevent fire-fighting water from entering surface water or groundwater.

6. Accidental Release Measures

Personal precautions	Do not inhale vapours/aerosols. Ensure supply of fresh air in enclosed rooms. For protective clothing, see section 8.
Spillage	Take up with liquid-absorbent material. Forward for disposal. Clean up affected area.
Environmental protection	Do not allow to enter sewerage system.

7. Handling and Storage

Handling	Use only in well-ventilated areas. Avoid substance contact. Take measures to prevent electrostatic charging.
Storage	Tightly closed. In a well-ventilated place. Keep away from sources of ignition and heat.

8. Exposure Control / Personal Protection

Exposure limits AFS 2005:17 Sweden	NGV 8hrs: 150 ppm. KTV: 300 ppm.
Respiratory protection	Required when vapours/aerosols are generated.
Eye protection	Required.
Hand protection	Wear appropriate gloves of butyl or PVA.
Industrial hygiene	Immediately change contaminated clothing. Apply skin-protective barrier cream. Wash hands and face after working with substance. Keep eye-wash bottles available on working place. Work under hood or in well-ventilated areas. Protective clothing should be selected specifically for the working place, depending on concentration and quantity

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9. Physical and Chemical Properties

Form	Colourless liquid	BCF	13 500
Odour	Fruit-like	Vapour pressure	103 mbar (20 °C)
Melting temperature	-83 °C	Explosion limits	2.1 % - 11.5%
Flashpoint	-4 °C	Molecular mass	88.1 g/mole
Ignition temperature	460 °C	Density	0.90 kg/dm ³
Solubility in water	85.3 g/l (20 °C)	Boiling point	77 °C
Viscosity	0.44 mPas	LogP (o/w)	0.73

10. Stability and Reactivity

Conditions to be avoided	Heating. Light sensitive. Sensitive to air. Exposable with air in a vaporous/gaseous state.
Materials and substances to be avoided	Alkali metals, fluorine, hydrides, strong oxidising agents, water. Unsuitable working materials: various plastics.
Hazardous decomposition products	In the event of fire: ethanol and acetic acid.

11. Toxicological Information

Acute toxicity	LD50 (oral rat): 5620 mg/kg. LD-50 (derm-rabbit): >18 000 mg/kg. LC-50 (inh-rat): 1600 ppm(V)/8h.
Inhalation	Mucosal irritation, lack of appetite.
Ingestion	Mucosal irritation, lack of appetite, salivation, nausea, vomiting, narcosis, respiratory paralysis.
Skin contact	Drying-out effect resulting in rough and chapped skin.
Eye contact	Irritations.
Sensitising	Sensitisation with allergic manifestations after long-term exposure.
Reproduction effects	An embryotoxic effect needs not to be feared when the threshold limit value is observed.
Further data	The product should be handled with the care usual when dealing with chemicals.

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12. Eco-toxicological Information

Biologic degradation	Readily biodegradable.
Biologic accumulation	Not bioaccumulative, logP(o/w) <1.
Ekotoxic effects	Toxic effects on fish and plankton. Risk of formation of explosive vapours above water surface. When used properly, no impairments in the function of waste-water-treatment plants are to be expected. Fish, LC50 (96h) P. Promelas: 230 mg/l. Daphnia Magna, EC50 (48h): 717 mg/l. Desmodesmus Subspicatus, IC-50 (48h): 3300 mg/l. Ps. Putida, EC-50 (16h): 2900 mg/l.
Information	Do not allow to enter waters, waste water or soil.

13. Disposal

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. EWC-code: 07 01 04.

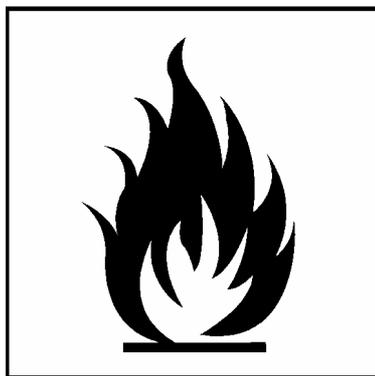
14. Transport Information

Land transport ADR/RID	UN-No: 1173 Proper shipping name: Ethyl Acetate Class: 3 Classification code: F1 Packing group: II
Sea transport IMDG	UN-No: 1173 Proper shipping name: Ethyl Acetate IMO-class: 3 Subsidiary risk: - Packing group: II EmS No: F-E, S-D Marine pollutant: No
Air transport ICAO/IATA	UM-No: 1173 Proper shipping name: Ethyl Acetate Class: 3 Subsidiary risk: - Packaging group: II
According to existing regulations	ADR/ADR-S SRVFS 2004:14 RID/RID-S SRVFS 2004:15 IMDG-koden amdt 32-04 DGR 47'th Edition

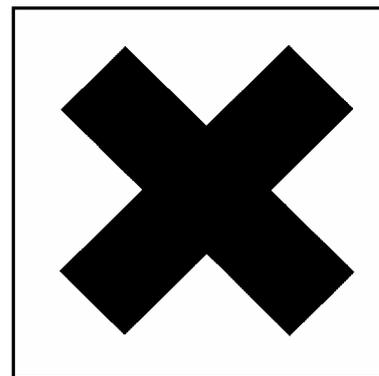
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15. Regulatory Information

Label Symbol(s)



F Highly flammable



Xi Irritant

Risk Phrases

R11 Highly flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Safety Phrases

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

Explanation to R-phrases in section 2

R11 Highly flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Changes have been made in sections 2, 4, 6, 8, 9, 11, 12, 13 and 14.

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