

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

Product identifier:

Product Name: ETHYL ACETATE
Chemical Name: Ethyl Acetate
Synonyms: Acetic acid ethyl ester
REACH Registration No.: 01-21194715103-46-XXXX
CAS No.: 141-78-6
EC No.: 205-500-4

Relevant identified uses of the substance or mixture and uses advised against:

Solvent, intermediate, manufacturing, coatings.

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Flam. Liq. 2
STOT SE 3

Label element:



Signal Word: Danger

Hazard statements: H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

SAFETY DATA SHEET

Ethyl Acetate

Issued: 19/12/2018

Page 2

Precautionary statements:	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P312 Call a POISON CENTRE or doctor if you feel unwell. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303+P361+P353- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Risk Phrases:	Highly Flammable Irritating to eyes Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
Safety Phrases:	Keep out of reach of children 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.
Other hazards:	This material is subject to building up static discharges: Risk of ignition

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:	Ethyl acetate
Concentration:	>99%
CAS Number:	141-78-6
EC Number:	205-500-4
R/H Phrases:	H225, H319, H336, R11, R36, R66, R67
Symbols:	GHS02, GHS07, F, Xi

4. FIRST AID MEASURES

Description of first aid measures:

IF INHALED:	Remove person to fresh air and keep comfortable for breathing.
If skin irritation occurs:	Get medical advice/attention.
If substance has got into eyes:	Immediately wash out with plenty of water for at least 15 minutes.
IF SWALLOWED:	Call a POISON CENTRE/doctor/ if you feel unwell.
If SWALLOWED:	Activated carbon should be administered to reduce resorption in the gastro-enteric tract. Remove contaminated clothing immediately and drench affected skin with plenty of water.

Most important symptoms and effects, both acute and delayed:

EXPOSURE TO HIGH CONCENTRATIONS: Irritation of respiratory tract: Irritation of nasal mucous membranes: Central Nervous System depression: Headache: Narcosis.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

[cont...]

SAFETY DATA SHEET

Ethyl Acetate

Issued: 19/12/2018

Page 3

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media:** High Volume Water Jet.
- Special hazards arising from the substance or mixture:** Highly flammable.
Vapours may ignite.
- Advice for firefighters:** Wear Breathing Apparatus.
Wear full protective clothing including chemical protection suit.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Do not use water jet.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures:**
Evacuate the area and keep personnel upwind.
Wear suitable respiratory protection.
Wear protective clothing.
- Environmental precautions:**
Stop leak if safe to do so.
Do not allow to enter public sewers and watercourses.
Evacuate area.
If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities.
Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.
- Methods and material for containment and cleaning up:** Absorb spillage in earth or sand.
Collect as much as possible in clean container for reuse or disposal.
Seek expert advice for removal and disposal of all contaminated materials and wastes.
- Reference to other sections:** See Section 7 for information on safe handling.
See Section 8 for information on personal protective equipment.

7. HANDLING AND STORAGE

- Precautions for safe handling:** Avoid contact with oxidising substances.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid contact with skin and eyes.
Ensure adequate ventilation.
Equipment should be earthed.

[cont...]

SAFETY DATA SHEET

Ethyl Acetate

Issued: 19/12/2018

Page 4

Equipment should be of flameproof design.
Eyewash bottles should be available.
In case of accident by inhalation: remove casualty to fresh air and keep at rest.
In use, may form flammable/explosive vapour-air mixture.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
Use non-sparking tools.
Wear eye/face protection.
Wear suitable gloves.

Conditions for safe storage, including any incompatibilities: Ground and bond container and receiving equipment.

Keep container tightly closed, in a cool, well ventilated place.
Keep out of reach of children.
Protect from sunlight. Store in a well-ventilated place.
Store in a dry place. Store in a closed container.
Ensure container is compatible for the material.
Mild Steel and Stainless steel are typical storage materials.

Specific end use(s): See Section 1.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:
WEL (short term): 400 mg/m³
DNEL (inhalational): 34 mg/m³
PNEC 0.26 mg/l freshwater
PNEC 0.026 mg/l seawater
PNEC 0.34 mg/kg freshwater

Exposure controls:
Appropriate respiratory protection should be worn for short periods if no extraction available.
Chemical gloves, goggles and appropriate skin protection should be worn when handling.
Use explosion-proof ventilating and lighting equipment.

Occupational exposure controls:
Wear approved respirator if exposure likely to exceed MEL/OES.
Wear protective gloves/protective clothing/eye protection/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Odour: Fruity odour
Appearance: Clear Liquid
Boiling point: 77°C
Vapour pressure: 98.3 hPa at 20°C
Vapour density (air = 1): 3

[cont...]

SAFETY DATA SHEET

Ethyl Acetate

Issued: 19/12/2018

Page 5

Melting point:	- 84 °C
Water solubility:	8 g/l
Relative Density:	0.9003 at 20°C
Flash point:	-4°C
Auto-ignition temperature:	427°C
Upper explosive limit:	11.5 % (in air)
Lower explosive limit:	2 % (in air)
Log Pow:	0.68
Evaporation rate (Butyl acetate = 1):	2.4
Viscosity:	0.00045 Pa.s at 20°C
Other information:	

10. STABILITY AND REACTIVITY

Reactivity:	Flammable.
Chemical stability:	Stable under normal conditions. Can be unstable on exposure to light. Can be unstable on exposure to moisture. Can be unstable on exposure to air.
Possibility of hazardous reactions:	Vapours may ignite. Reacts violently with strong acids.
Conditions to avoid:	Avoid contact with oxidising substances. Keep away from static electricity. Avoid contact with strong acids. Avoid contact with alkalis (strong bases). Avoid contact with air. Avoid contact with moisture.
Incompatible materials:	Incompatible with oxidizing substances. Incompatible with strong acids. Incompatible with alkalis (strong bases).
Hazardous decomposition products:	Decomposition products may include carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:	LD50 (oral,rat): 4934 mg/kg LD50 (skin,rat): >20000 mg/kg LC50 (inhalation) : 22.5 mg/l
Inhalation:	May cause dizziness May cause drowsiness.
Contact with skin:	May cause irritation.
Contact with eyes:	May cause irritation.

[cont...]

SAFETY DATA SHEET

Ethyl Acetate

Issued: 19/12/2018

Page 6

Ingestion: Not classified as hazardous but the ingestion of significant quantities should be referred to a physician.

Carcinogenicity: No evidence of carcinogenic effects.

Teratogenicity: No evidence of reproductive effects.

Mutagenicity: No evidence of reproductive effects.

12. ECOLOGICAL INFORMATION

Toxicity: LC50 (fish): 230 mg/l (96 hr)
EC50 (Daphnia magna): 165 mg/l (48 hr)
IC50 (algae): 5600 mg/l (48 hr)
On available data, substance is not harmful to aquatic life.

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential: Bioaccumulation is insignificant.

Mobility in soil: Water solubility: 8 g/l

Results of PBT and vPvB assessment: Not a PBT according to REACH Annex XIII.

Other adverse effects: On available data, substance is not harmful to the environment.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Incinerate under controlled conditions, using incinerator suitable for the disposal of noxious chemical waste.

Classification: Must be dealt with as Hazardous Waste.

14. TRANSPORT INFORMATION

UN number: 1173

UN proper shipping name: ETHYL ACETATE

Transport hazard class(es): 3

Packing group: II

Environmental hazards:

Special precautions for user:

Transport in bulk according to Annex II of Marpol and the IBC Code:

Transport Regulations:



Emergency Action Code:

Proper Shipping Name: ETHYL ACETATE

EAC: 3YE

[cont...]

SAFETY DATA SHEET

Ethyl Acetate

Issued: 19/12/2018

Page 7

Road/Rail (ADR/RID):

Proper Shipping Name: ETHYL ACETATE
ADR UN No.: 1173
ADR Hazard Class: 3
ADR Item No.:
ADR/RID No.:
Tremcard:
Tunnel Code: D/E

Sea (IMDG):

Proper Shipping Name: ETHYL ACETATE
IMDG UN No.: 1173
IMDG Hazard Class: 3
IMDG Page No.:
IMDG Pack Group.: II
IMDG EmS:
IMDG MFA:

Air (ICAO/IATA):

Proper Shipping Name: ETHYL ACETATE
ICAO UN No.: 1173
ICAO Hazard Class:
ICAO Packing Group: II

DOT / CFR (US Department of Transportation):

DOT Proper Shipping Name:
Hazardous Material:
Hazard Class:
Identification Number:
Product RQ (lbs):

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

INVENTORIES: EINECS, TSCA, AICS, DSL, ENCS, KECI, PICCS, IECSC - All conformed to.
Revised SDS to CLP/GHS requirements.

Chemical safety assessment: A Chemical Safety Assessment has been carried out for this product.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

[cont...]

SAFETY DATA SHEET
Ethyl Acetate

Issued: 19/12/2018

Page 8

16. OTHER INFORMATION

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.