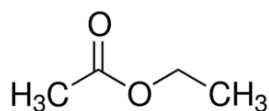


CAS-No.: 141-78-6 MSDS

**MATERIAL SAFETY DATA SHEET (MSDS)****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Substance  
:  
EC-No. : 205-500-4  
CAS-No. : 141-78-6  
Product code : 00137  
Formula : C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>  
Chemical structure :



Synonyms : Acetic ether

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Industrial/Professional use spec : Industrial  
For professional use only

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet**

LOBA CHEMIE PVT.LTD.  
107 Wode House Road, Jehangir Villa, Colaba  
400005 Mumbai - INDIA  
T +91 22 6663 6663 - F +91 22 6663 6699  
[info@lobachemie.com](mailto:info@lobachemie.com) - [www.lobachemie.com](http://www.lobachemie.com)

**1.4. Emergency telephone number**

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Flammable liquids, H225  
Category 2  
Serious eye damage/eye H319  
irritation, Category 2  
Specific target organ H336  
toxicity — Single  
exposure, Category 3,  
Narcosis

Full text of H statements : see section 16

# ETHYL ACETATE Extra Pure

## Safety Data Sheet

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11  
Xi; R36  
R66  
R67

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour.  
H319 - Causes serious eye irritation.  
H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : ETHYL ACETATE Extra Pure  
CAS-No. : 141-78-6  
EC-No. : 205-500-4

Full text of R- and H-statements: see section 16

### 3.2. Mixtures

Not applicable

# ETHYL ACETATE Extra Pure

## Safety Data Sheet

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking.
- First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : May cause drowsiness or dizziness.
- Symptoms/effects after eye contact : Causes serious eye irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Highly flammable liquid and vapour.
- Explosion hazard : May form flammable/explosive vapour-air mixture.

#### 5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Avoid breathing dust/fume/gas/mist/vapours/spray.
- Emergency procedures : Stop release.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
- Precautions for safe handling : No open flames. No smoking. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
- Hygiene measures : Wash hands, forearms and face thoroughly after handling.

# ETHYL ACETATE Extra Pure

## Safety Data Sheet

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep in fireproof place. Keep container tightly closed.  
Incompatible materials : Heat sources.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Hand protection : protective gloves  
Eye protection : Chemical goggles or safety glasses  
Skin and body protection : Wear fire/flame resistant/retardant clothing.  
Respiratory protection : Wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Molecular mass : 88.11 g/mol  
Colour : Clear Colorless.  
Odour : fruity odor.  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : 6  
Melting point : -83 °C  
Freezing point : No data available  
Boiling point : 77 °C  
Flash point : -4 °C  
Auto-ignition temperature : No data available  
Decomposition temperature : 426 °C  
Flammability (solid, gas) : Flammable  
Highly flammable liquid and vapour.  
Vapour pressure : 76 mm Hg at 20C  
Relative vapour density at 20 °C : 3  
Relative density : No data available

# ETHYL ACETATE Extra Pure

## Safety Data Sheet

|                      |                                   |
|----------------------|-----------------------------------|
| Density              | : 0.902 g/cm <sup>3</sup>         |
| Solubility           | : Water: 1 @ 25C (ml/10ml water ) |
| Log Pow              | : No data available               |
| Viscosity, kinematic | : No data available               |
| Viscosity, dynamic   | : No data available               |
| Explosive properties | : No data available               |
| Oxidising properties | : No data available               |
| Explosive limits     | : 0.02 - 0.115 vol %              |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Open flame. Direct sunlight.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                                   |   |
|-----------------------------------|---|
| Acute toxicity                    | : Not classified  |
| Skin corrosion/irritation         | : Not classified  |
| Additional information            | : Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation     | : Causes serious eye irritation.                        |
| Respiratory or skin sensitisation | : Not classified  |
| Germ cell mutagenicity            | : Not classified  |
| Carcinogenicity                   | : Not classified  |
| Reproductive toxicity             | : Not classified  |
| STOT-single exposure              | : May cause drowsiness or dizziness.                    |
| STOT-repeated exposure            | : Not classified  |

# ETHYL ACETATE Extra Pure

## Safety Data Sheet

Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Handle empty containers with care because residual vapours are flammable.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : 1173

UN-No. (IMDG) : 1173

UN-No. (IATA) : 1173

UN-No. (ADN) : 1173

UN-No. (RID) : 1173

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ETHYL ACETATE

Proper Shipping Name (IMDG) : ETHYL ACETATE

Proper Shipping Name (IATA) : Ethyl acetate

Proper Shipping Name (ADN) : ETHYL ACETATE

Proper Shipping Name (RID) : ETHYL ACETATE

Transport document description (ADR) : UN 1173 ETHYL ACETATE, 3, II, (D/E)

# ETHYL ACETATE Extra Pure

## Safety Data Sheet

|                                       |  |
|---------------------------------------|--|
| Transport document description (IMDG) | : UN 1173 ETHYL ACETATE, 3, II (-4°C c.c.) |
| Transport document description (IATA) | : UN 1173 Ethyl acetate, 3, II             |
| Transport document description (ADN)  | : UN 1173 ETHYL ACETATE, 3, II             |
| Transport document description (RID)  | : UN 1173 ETHYL ACETATE, 3, II             |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 3 |
| Danger labels (ADR)              | : 3 |



#### IMDG

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IMDG) | : 3 |
| Danger labels (IMDG)              | : 3 |



#### IATA

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IATA) | : 3 |
| Hazard labels (IATA)              | : 3 |



#### ADN

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADN) | : 3 |
| Danger labels (ADN)              | : 3 |



#### RID

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (RID) | : 3 |
| Danger labels (RID)              | : 3 |



### 14.4. Packing group

|                     |      |
|---------------------|------|
| Packing group (ADR) | : II |
|---------------------|------|

# ETHYL ACETATE Extra Pure

## Safety Data Sheet


|                      |      |
|----------------------|------|
| Packing group (IMDG) | : II |
| Packing group (IATA) | : II |
| Packing group (ADN)  | : II |
| Packing group (RID)  | : II |

### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

#### - Overland transport

|   |   |
|---|---|
| Classification code (ADR)                                 | : F1  |
| Limited quantities (ADR)                                  | : 1I  |
| Excepted quantities (ADR)                                 | : E2  |
| Packing instructions (ADR)                                | : P001, IBC02, R001   |
| Mixed packing provisions (ADR)                            | : MP19  |
| Portable tank and bulk container instructions (ADR)       | : T4  |
| Portable tank and bulk container special provisions (ADR) | : TP1   |
| Tank code (ADR)   | : LGBF  |
| Vehicle for tank carriage                                 | : FL  |
| Transport category (ADR)                                  | : 2   |
| Special provisions for carriage - Operation (ADR)         | : S2, S20   |
| Hazard identification number (Kemler No.)                 | : 33  |
| Orange plates   | :  |
| Tunnel restriction code (ADR)                             | : D/E   |
| EAC code  | : •3YE  |

#### - Transport by sea

|                                 |             |
|---------------------------------|-------------|
| Limited quantities (IMDG)       | : 1 L       |
| Excepted quantities (IMDG)      | : E2        |
| Packing instructions (IMDG)     | : P001      |
| IBC packing instructions (IMDG) | : IBC02     |
| Tank instructions (IMDG)        | : T4        |
| Tank special provisions (IMDG)  | : TP1       |
| EmS-No. (Fire)                  | : F-E       |
| EmS-No. (Spillage)              | : S-D       |
| Stowage category (IMDG)         | : B         |
| Flash point (IMDG)              | : -4°C c.c. |
| MFAG-No                         | : 129       |

#### - Air transport

|  |        |
|--|--------|
| PCA Excepted quantities (IATA)               | : E2   |
| PCA Limited quantities (IATA)                | : Y341 |
| PCA limited quantity max net quantity (IATA) | : 1L   |
| PCA packing instructions (IATA)              | : 353  |
| PCA max net quantity (IATA)                  | : 5L   |



# ETHYL ACETATE Extra Pure

## Safety Data Sheet

CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
ERG code (IATA) : 3L

### - Inland waterway transport

Classification code (ADN) : F1  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 1

### - Rail transport

Classification code (RID) : F1  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4  
Portable tank and bulk container special provisions (RID) : TP1  
Tank codes for RID tanks (RID) : LGBF  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE7  
Hazard identification number (RID) : 33

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

ETHYL ACETATE Extra Pure is not on the REACH Candidate List

ETHYL ACETATE Extra Pure is not on the REACH Annex XIV List

#### 15.1.2. National regulations

##### Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV; ID No. 95)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

# ETHYL ACETATE Extra Pure

## Safety Data Sheet

|   |                               |
|---|-------------------------------|
| SZW-lijst van mutagene stoffen  | : The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding   | : The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid | : The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling   | : The substance is not listed |

### Denmark

|                                   |   |
|-----------------------------------|---|
| Classification remarks            | : Emergency management guidelines for the storage of flammable liquids must be followed |
| Recommendations Danish Regulation | : Young people below the age of 18 years are not allowed to use the product             |

## 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of R-, H- and EUH-statements:

|              |  |
|--------------|--|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2                          |
| Flam. Liq. 2 | Flammable liquids, Category 2  |
| STOT SE 3    | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H225         | Highly flammable liquid and vapour.                                    |
| H319         | Causes serious eye irritation.   |
| H336         | May cause drowsiness or dizziness.                                     |
| R11          | Highly flammable   |
| R36          | Irritating to eyes   |
| R66          | Repeated exposure may cause skin dryness or cracking                   |
| R67          | Vapours may cause drowsiness and dizziness                             |
| F            | Highly flammable   |
| Xi           | Irritant   |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*