

# SAFETY DATA SHEET



**Product Name** Methyl acetate  
**MSDS number** 80195  
**Revision Number** 6.01

**Revision Date** Feb.28.2017  
**Issuing date** Feb.12.2019

AGHS/EN

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

**Product Name**

**Methyl acetate**

**Manufacturer or supplier's details**

**Celanese Sales Germany GmbH**

Am Unisys-Park 1  
65843 Sulzbach (Taunus)  
Germany

**Celanese Pte Ltd**

60 Anson Road  
Maple Tree Anson #13-02  
Singapore 079914

**Product Information**

HazCom@celanese.com

**Emergency telephone number**

+(65) 62656917 (Operations Room direct dial)  
or fax request to +(65) 62664696 (Facsimile to Operations Room)  
or email to posh.er@paccoffshore.com.sg

**In China Emergency Number:** 86-532-83889090 (NRCC)

**Identified uses**

Chemical intermediate

## 2. Hazards identification

**GHS Classification**

**Hazards**

Flammable liquid  
Acute dermal toxicity  
Serious eye damage/eye irritation  
Specific target organ systemic toxicity (single exposure)

**Category**

Category 2  
Category 5  
Category 2A  
Category 3  
Narcotic

**Labeling**

**Symbol(s)**



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**Signal Word** Danger

**Hazard Statements**  
H225 - Highly flammable liquid and vapor  
H313 - May be harmful in contact with skin  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness and dizziness

**Precautionary Statements**  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P243 - Take precautionary measures against static discharge  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P313 - If eye irritation persists: Get medical advice/attention  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

## 3. Composition/Information on ingredients

**Chemical characterization** Acetic acid methylester

| Components     | CAS-No  | Percent % |
|----------------|---------|-----------|
| Methyl acetate | 79-20-9 | min 99.5  |

## 4. First aid measures

### General Information

Remove contaminated, soaked clothing immediately and dispose of safely. Pay attention to own protection. In any case show the physician the Safety Data Sheet.

### Skin

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

### Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

### Inhalation

Keep at rest. Move to fresh air. Call a physician immediately.

### Ingestion

If conscious, drink plenty of water. If swallowed, do not induce vomiting - seek medical advice.

## 5. Fire-fighting measures

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## 5. Fire-fighting measures

**NFPA:** Health: 2 Flammability: 3 Instability: 0

### Suitable extinguishing media

Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>), Water spray

### Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

### Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases

Under conditions giving incomplete combustion, hazardous gases produced may consist of

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

Vapors are heavier than air and may spread along floors

### Special protective equipment for fire-fighters

self-contained breathing apparatus (EN 133).

### Environmental precautions

Water streams should not be directed to the liquid, as this will cause the liquid to boil and generate more vapor. Dike and collect water used to fight fire.

### Other Information

Cool containers / tanks with water spray.

## 6. Accidental release measures

### Personal precautions

Avoid contact with the skin and the eyes. Avoid breathing vapors or mists. Provide adequate ventilation. Keep away from heat and sources of ignition.

### Environmental precautions

Prevent further leakage or spillage. Do not discharge into the drains/surface waters/groundwater.

### Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations.

## 7. Handling and storage

### Advice on safe handling

Provide sufficient air exchange and/or exhaust in work rooms.

### Incompatible products

Oxidizing agents, Bases

### Protection - fire and explosion:

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge.

Ground and bond containers when transferring material. In case of fire, emergency cooling with water spray should be available.

### Material storage

Store locked up. Keep in a dry, cool and well-ventilated place.

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## Incompatible products

Oxidizing agents, Bases

## Technical measures/Storage conditions

Keep tightly closed in a dry, cool and well-ventilated place. Handle an open container with care.

## 8. Exposure controls / personal protection

### ACGIH Exposure Limits

| Components     | TWA     |
|----------------|---------|
| Methyl acetate | 200 PPM |

| Components     | STEL    |
|----------------|---------|
| Methyl acetate | 250 PPM |

### OSHA Exposure Limits

| Components     | TWA     |
|----------------|---------|
| Methyl acetate | 200 PPM |

| Components     | STEL    |
|----------------|---------|
| Methyl acetate | 250 PPM |

## Exposure controls

### Engineering measures

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

### Personal protective equipment

#### General advice

Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Use only in an area equipped with a safety shower. Hold eye wash fountain available.

#### Hygiene measures

When using, do not eat, drink or smoke.. Take off all contaminated clothing immediately.. Wash hands before breaks and immediately after handling the product..

#### Respiratory protection

If aerosols or vapors are present, respiratory protection is required (gas filter AX) .

#### Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.. Equipment should conform to EN 166.

#### Skin protection

impervious clothing

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|                           |  |
|---------------------------|--|
| <b>Hand protection</b>    | Chemicals resistant gloves   |
| <b>Suitable material</b>  | Butyl-rubber   |
| <b>Type</b>               | Butoject (Company KCL) or comparable article;<br>or refer to glove manufacturer's recommendation |
| <b>Evaluation</b>         | according to EN 374: level 5   |
| <b>Material thickness</b> | Approx. 0.7 mm   |
| <b>Break through time</b> | 240 min  |

## 9. Physical and chemical properties

### Appearance

|              |            |
|--------------|------------|
| <b>Form</b>  | liquid     |
| <b>Color</b> | colourless |
| <b>Odor</b>  | fruity     |

|  |                                  |
|--|----------------------------------|
| <b>Odor Threshold</b>                              | 4.6 ppm (gas in air)             |
| <b>Flash point</b>                                 | -13°C                            |
| <b>Method</b>                                      | closed cup                       |
| <b>Ignition temperature</b>                        | 454°C                            |
| <b>Lower explosion limit</b>                       | 3.1 Vol. %                       |
| <b>Upper explosion limit</b>                       | 16 Vol. %                        |
| <b>Melting point/range</b>                         | -99°C                            |
| <b>Boiling point/range</b>                         | 57°C @ 1013 hPa                  |
| <b>Density</b>                                     | 0.93 g/ml @ 20°C                 |
| <b>pH</b>  | neutral                          |
| <b>Viscosity</b>                                   | 0.364 mPa*s @ 25°C               |
| <b>Vapor pressure</b>                              | 228 hPa @ 20°C<br>787 hPa @ 50°C |
| <b>Vapor density</b>                               | 2.8 (Air=1)                      |
| <b>Water solubility</b>                            | 243.5 g/l @ 20°C                 |
| <b>Partition coefficient<br/>(n-octanol/water)</b> | 0.18 (measured)                  |

## 10. Stability and reactivity

### **Reactivity**

Stable under normal conditions of handling, use and transportation.

### **Conditions to avoid**

Avoid any source of ignition.. Avoid contact with heat, sparks, open flame, and static discharge..

### **Incompatible Materials**

Oxidizing agents, Bases

### **Hazardous Combustion or Decomposition Products:**

Thermal decomposition products may include oxides of carbon.

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## 11. Toxicological information

### Potential health effects

**Routes of exposure** Skin, eyes, inhalation, ingestion.

#### Immediate effects

|                   |  |
|-------------------|--|
| <b>Skin</b>       | Prolonged or repeated exposure may cause: Drying, cracking or inflammation of skin.  |
| <b>Eyes</b>       | Causes eye irritation. Symptoms of exposure may include: Eye irritation, burning sensation, pain, watering, and/or change of vision.   |
| <b>Inhalation</b> | May cause irritation of respiratory tract. Symptoms of exposure may include: Central nervous system depression with nausea, dizziness, headache, stupor, uncoordinated or strange behavior or unconsciousness. |
| <b>Ingestion</b>  | Essentially non-toxic.   |

**Target organ effects** Overexposure (prolonged or repeated exposure) may cause:  
 Central nervous system depression  
 Local irritation at the site of exposure

**Medical conditions which may be aggravated by exposure:** Medical conditions which may be aggravated by exposure: Eyes  
 Skin  
 Central nervous system

#### Methyl acetate

|  |   |
|--|---|
| <b>Acute oral toxicity</b>               | LD50: > 5000 mg/kg  |
| <b>Acute dermal toxicity</b>             | LD50: > 2000 mg/kg  |
| <b>Acute inhalation toxicity</b>         | LC50 (4h): > 49 mg/l  |
| <b>Skin corrosion/irritation</b>         | Not irritating  |
| Species                                  | rabbit  |
| Method                                   | OECD 404  |
| <b>Skin Sensitization</b>                | nonsensitizer   |
| <b>Serious eye damage/eye irritation</b> | irritant  |
| Species                                  | rabbit eye  |
| Method                                   | OECD 405  |
| <b>in vitro Mutagenicity</b>             | Ames Test: negative - with and without metabolic activation -<br>Method: OECD 471 |
| <b>in vivo Mutagenicity</b>              | Mammalian Erythrocyte Micronucleus Test in rat: negative -<br>Method: OECD 474    |
| <b>Repeated exposure</b>                 | No adverse effects  |
| Routes of exposure                       | Inhalation  |
| Species                                  | rat   |

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## Method

OECD 412  
NOAEL: 1057 mg/m<sup>3</sup>

## 12. Ecological Information

### Methyl acetate

#### Acute fish toxicity

Species:  
Method

LC50: > 250 mg/l (96h)  
Brachidanio rerio (zebra fish)  
OECD 203

#### Acute daphnia toxicity

Species:  
Method

EC50: > 1000 mg/l (48h)  
Daphnia magna  
OECD 202

#### Toxicity to aquatic plants

Species:  
Method

EC50: > 120 mg/l (72h)  
Desmodesmus subspicatus  
OECD 201

#### Biodegradation

Method

Readily biodegradable  
OECD 301 D

#### Other potential hazards

The substance does not meet the criteria for PBT / vPvB according to REACH, Annex XIII

## 13. Disposal considerations

### Product information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

### Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse

## 14. Transport information

### US Department of Transportation

**UN/NA Number:** UN 1231  
**Proper Shipping Name** Methyl acetate  
**Hazard class** 3  
**Packing Group** II  
**Emergency Resp. Guide** 129

### ADR/RID

**UN/ID No.** UN 1231  
**Proper Shipping Name** Methyl acetate  
**Hazard Class** 3  
**Classification Code** F1  
**Packing group** II  
**Environmentally hazardous** no  
**Tunnel Restriction Code** (D/E)

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## **14. Transport information**

**Hazard Label(s)** 3  
**Hazard Number** 33

**ADN** ADN: Container and Tanker  
**UN/ID No.** UN 1231  
**Proper Shipping Name** Methyl acetate  
**Hazard Class** 3  
**Classification Code** F1  
**Packing group** II  
**Environmentally hazardous** no  
**Hazard Labels** 3

### **ICAO/IATA**

**UN-No.** UN 1231  
**Proper Shipping Name** Methyl acetate  
**Hazard Class** 3  
**Packing group** II  
**Environmentally hazardous** no  
**Hazard Labels** 3

### **IMDG**

**UN/ID No.** UN 1231  
**Proper Shipping Name** Methyl acetate  
**Hazard Class** 3  
**Packing group** II  
**Marine pollutant** no  
**Hazard Labels** 3  
**EmS Code** F-E, S-D

## **15. Regulatory information**

### **International Inventories**

Listed on the chemical inventories of the following countries or qualifies for an exemption:

Australia (AICS)  
Canada (DSL)  
China (IECSC)  
Europe (EINECS)  
Japan (ENCS)  
Japan (ISHL)  
Korea (KECI)  
New Zealand (NZIoC)  
Philippines (PICCS)  
United States (TSCA)



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## **16. Other information**

HMIS: Health: 2

Flammability: 3

Physical Hazard: 0

### **Prepared By**

Product Stewardship Department  
Celanese

### **Other Information:**

Observe national and local legal requirements.

Changes against the previous version are marked by \*\*\*

### **Sources of key data used to compile the datasheet**

Information contained in this safety data sheet is based on Celanese owned data and public sources deemed valid or acceptable. The absence of data elements required by ANSI or 1907/2006/EC indicates that no data meeting these requirements is available.

### **Further information**

This information is based on our present state of knowledge. It shall describe our products regarding safety requirements and shall not be construed as a guarantee or statement of condition and/or quality. For more information, other material safety data sheets or technical data sheets please consult the Celanese homepage ([www.celanese.com](http://www.celanese.com))