



**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**NATURAL ETHYL HEPTANOATE**

Revision date: 08/08/2022

Product code: 243700US

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**Hazardous components**

| CAS No   | Components               | Quantity |
|----------|--------------------------|----------|
| 106-30-9 | NATURAL ETHYL HEPTANOATE | 100 %    |

**4. First-aid measures****Description of first aid measures****After inhalation**

Provide fresh air.

**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Specific hazards arising from the chemical**

Non-flammable. Vapors may form explosive mixtures with air.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Use water spray/stream to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General advice**

Use personal protection equipment.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

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Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### **Advice on safe handling**

No special measures are necessary.

#### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

#### **Advice on general occupational hygiene**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

### Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

Keep container tightly closed.

#### **Hints on joint storage**

No special measures are necessary.

## 8. Exposure controls/personal protection

### Control parameters

### Exposure controls

#### **Individual protection measures, such as personal protective equipment**

#### **Eye/face protection**

Wear eye/face protection.

#### **Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### **Skin protection**

Use of protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|   |                           |                |
|---|---------------------------|----------------|
| Physical state:   | Liquid                    |                |
| Color:  | Colourless to pale yellow |                |
| Odor:   | fruity                    |                |
| Melting point/freezing point:                             |                           | -66 °C         |
| Boiling point or initial boiling point and boiling range: |                           | 188 °C         |
| Flammability  |                           |                |
| Solid/liquid:   |                           | not applicable |
| Gas:  |                           | not applicable |
| Lower explosion limits:                                   |                           | 0,9 vol. %     |
| Flash point:  |                           | 70 °C          |
| Auto-ignition temperature:                                |                           | 340 °C         |

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|  |                        |
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| Decomposition temperature:                     | not determined         |
| pH-Value:                                      | not determined         |
| Water solubility:<br>(at 20 °C)                | 0,126 g/L              |
| Solubility in other solvents<br>not determined |                        |
| Partition coefficient n-octanol/water:         | 3,98                   |
| Vapor pressure:<br>(at 20 °C)                  | 4,27 hPa               |
| Vapor pressure:<br>(at 50 °C)                  | 14,6 hPa               |
| Density (at 20 °C):                            | 0,87 g/cm <sup>3</sup> |
| Relative vapour density:<br>(at 20 °C)         | 5,4                    |

#### Other information

##### **Information with regard to physical hazard classes**

Explosive properties

The product is not: Explosive. not hazard of explosion according to EU A.14

Oxidizing properties

The product is not: oxidising.

##### **Other safety characteristics**

Evaporation rate: not determined

Solvent content: 0%

Solid content: 0%

## 10. Stability and reactivity

#### Reactivity

No hazardous reaction when handled and stored according to provisions.

#### Chemical stability

The product is stable under storage at normal ambient temperatures.

#### Possibility of hazardous reactions

No known hazardous reactions.

#### Conditions to avoid

none/none

#### Incompatible materials

No information available.

#### Hazardous decomposition products

No known hazardous decomposition products.

## 11. Toxicological information

#### Information on toxicological effects

##### **Acute toxicity**

Based on available data, the classification criteria are not met.

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| CAS No   | Components               |                   |         |                                       |        |
|----------|--------------------------|-------------------|---------|---------------------------------------|--------|
|          | Exposure route           | Dose              | Species | Source                                | Method |
| 106-30-9 | NATURAL ETHYL HEPTANOATE |                   |         |                                       |        |
|          | oral                     | LD50 >34600 mg/kg | Rat     | Food and Cosmetics Tox. Vol. 2, 1964  |        |
|          | dermal                   | LD50 >5000 mg/kg  | Rabbit  | Food and Cosmetics Tox. Vol. 19, 1981 |        |
|          | inhalation               | Data lacking      |         |                                       |        |

#### **Irritation and corrosivity**

Based on available data, the classification criteria are not met.

#### **Sensitizing effects**

Based on available data, the classification criteria are not met.

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

#### **Specific target organ toxicity (STOT) - single exposure**

Based on available data, the classification criteria are not met.

#### **Specific target organ toxicity (STOT) - repeated exposure**

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): Not listed.

Carcinogenicity (IARC): Not listed.

Carcinogenicity (NTP): Not listed.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Information on other hazards**

##### **Endocrine disrupting properties**

No information available.

## 12. Ecological information

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

| CAS No   | Components               |                 |           |                                 |               |          |
|----------|--------------------------|-----------------|-----------|---------------------------------|---------------|----------|
|          | Aquatic toxicity         | Dose            | [h]   [d] | Species                         | Source        | Method   |
| 106-30-9 | NATURAL ETHYL HEPTANOATE |                 |           |                                 |               |          |
|          | Acute fish toxicity      | LC50 1,01 mg/l  | 96 h      | Danio rerio (zebrafish)         | REACH Dossier | OECD 203 |
|          | Acute algae toxicity     | ErC50 0,44 mg/l | 72 h      | Pseudokirchneriella subcapitata | REACH Dossier | OECD 201 |
|          | Algae toxicity           | NOEC 0,101 mg/l | 3 d       | Pseudokirchneriella subcapitata | REACH Dossier | OECD 201 |

#### **Persistence and degradability**

The product has not been tested.

#### **Bioaccumulative potential**

The product has not been tested.

#### **Partition coefficient n-octanol/water**

| CAS No   | Components               | Log Pow |
|----------|--------------------------|---------|
| 106-30-9 | NATURAL ETHYL HEPTANOATE | 3,98    |

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#### Mobility in soil

The product has not been tested.

#### Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

No information available.

#### Other adverse effects

No information available.

#### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 13. Disposal considerations

#### Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

##### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### 14. Transport information

#### U.S. DOT 49 CFR 172.101

UN number or ID number:

UN 3082

Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es):

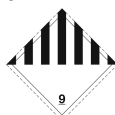
9

Packing group:

III

Hazard label:

9



#### Marine transport (IMDG)

UN number or ID number:

UN 3082

UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es):

9

Packing group:

III

Hazard label:

9



Special Provisions:

274, 335, 969

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-F

#### Air transport (ICAO-TI/IATA-DGR)

UN number or ID number:

UN 3082

UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es):

9

Packing group:

III

Hazard label:

9

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|  |                    |       |
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| Special Provisions:                    | A97 A158 A197 A215 |       |
| Limited quantity Passenger:            | 30 kg G            |       |
| Passenger LQ:                          | Y964               |       |
| Excepted quantity:                     | E1                 |       |
| IATA-packing instructions - Passenger: |                    | 964   |
| IATA-max. quantity - Passenger:        |                    | 450 L |
| IATA-packing instructions - Cargo:     |                    | 964   |
| IATA-max. quantity - Cargo:            |                    | 450 L |

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: ETHYL HEPTANOATE

#### Special precautions for user

No information available.

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

not applicable

### 15. Regulatory information

#### U.S. Regulations

##### State Regulations

##### **Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

### 16. Other information

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Revision No: 104

#### **Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate

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LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>  
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

**Other data**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.