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1 Identification of the substance/mixture and of the company/undertaking

• **Informations to product No. 7053**

• **Product name:**

Ethylacetat
Ethylacetate
Ethylis acetat, Aether aceticus

• **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH
Herderstr. 31
40721 Hilden
Tel.: 02103/4994-0
Fax: 02103/32360
e-mail: info@caelo.de

• **Emergency telephone:**

Giftinformationszentrum Mainz
Langenbeckstr. 1, 55131 Mainz
Tel.: 06131/19240

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

No further relevant information available.

• **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

2 Hazards identification

• **GHS-Labeling Elements:**



• **Signal word:** Danger


• **H-Phrases:**

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

• **P-Phrases:**

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P280 Wear protective gloves/protective clothing/eye protection/face protection
P243 Take precautionary measures against static discharge

Flam Liq. 2
Eye Irrit. 2
STOT SE 3

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3 Composition / information on ingredients

• **Chemical characterization:**

CAS-No. Substance name

141-78-6 Ethyl acetate

• **EINECS-No.:** 205-500-4

• **Index-No.:** 607-022-00-5

• **REACH Reg. No.:** 01-2119475103-46-0000

• **INCI-Name:** Ethyl Acetate

4 First aid measures

- **after inhalation:** Bring the person out of the contaminated area to fresh air, Seek medical help immediately. Show product-label or this MSDS.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap, seek medical advice immediately, even if no immediate symptoms are observed.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open, seek medical advice, even if no immediate symptoms are observed.
- **after swallowing:** Caution if vomiting (Danger of aspiration!). Laxans: Paraffin oil (3ml per kg). Sodium sulfate (1 spoon / 1/4 l Water). No ricinus oil, no milk. Seek medical advice.

5 Fire-fighting measures


- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible. Vapours heavier /denser than air. With air explosive mixtures can be formed. Keep away from ignition sources. Take measures to prevent electrostatic charging.

6 Accidental release measures

- **Personal protective measures:** Good ventilation of working place. Do not inhale vapours.
- **Environmental protective measures:** Prevent from entering into surface water, the ground water system or soil. Explosion hazard!
- **Methods for cleaning:** Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage

- **Handling:**
- **Advice on safe handling:** Ensure good ventilation/exhaustion at the workplace. Handling corresponding to laboratory safety guidelines. Avoid formation of aerosols.
- **Informations to fire or explosion protection:** Take measures to prevent electrostatic charging. Keep away from heat and ignition sources. Do not smoke.
- **Requirements for storage areas and containers:** Store at a cool and dry place.
- **Additional informations to storage conditions:** Keep container tightly closed. Maximal filling level 95%.

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8 Exposure controls / personal protective equipment

Components with limit values that require monitoring at the workplace:

141-78-6 Ethyl acetate (100,0%)

MAK: 1400 mg/m³, 400 ml/m³

- **General information:** pregnancy: Group C
- **Personal protective equipment:**
- **General protective and hygiene measures:** Wash hands before breaks and after work.
- **Respiratory protection:** Good ventilation / exhaustion of working place or use respiratory filter.
- **Hand protection:** solvent-proof protection gloves, e.g. Nitrile rubber.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties

- **Form:** liquid
- **Colour:** colourless
- **Odour:** fruity
- **Melting point / melting range:** - 83 °C
- **Boiling point / boiling range:** 76 - 78 °C
- **Flash point:** - 4 °C DIN 51755
- **Ignition temperature:** 460 °C DIN 51794
- **Explosion hazard:** The product is not explosive, but explosive vapour-air-mixtures can be formed.
- **Explosion limits:**
- **lower:** 2,1 Vol %
- **upper:** 11,5 Vol %
- **Vapour pressure:** (20 °C) 103 hPa
- **Density:** (20 °C) 0,9 g/cm³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 85,3 g/l
- **Viscosity:**
- **dynamic:** (20 °C) 0,44 mPas

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.
- **Materials to avoid:** Alkali metals, halogens, hydrides, strong oxidizers, Water with air and light.
- **Hazardous decomposition products:** Ethanol, Acetic acid.
- **Additional information:** Not suitable materials: some plastics. Explosive vapour-air-mixtures can be formed. Substance is light and air-sensitive.

11 Toxicological information

• Acute toxicity:


LD/LD50-data relevant for hazard classification:

141-78-6 Ethylacetat

Oral: LD50: 4935 mg/kg (rbt)

Inhalativ: LC50/4 h: 1600 mg/l (rat)

oral 5620 mg/kg rat

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- **Primary irritant effect:**
- **on skin:** Irritant effect on skin and mucous membranes.
- **Additional toxicological informations:** After swallowing and inhalation: Irritations of mucous membranes, lack of appetite, headache. In high concentrations: savilating, illness, vomiting, narcosis, respiratory paralysis. Degreasing effect on skin with possible secondary inflammation. After long-termed exposition to the substance: Sensitization with allergic manifestations.

12 Ecological information

- **Information about elimination (persistence and degradability):** Readily biodegradable.
- **Aquatic toxicity:**
Fishes: Pimephales promelas LC50 230 mg/l, 96 h
Daphnia: Daphnia magna EC50 717 mg/l, 48 h
Algae: Desmodesmus subspicatus IC50 3.300 mg/l, 48 h
Bacteria: Pseudomonas putida EC10 2.900 mg/l, 16 h
- **Log pOW:** 0,73
- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.
- **General advices:** Prevent from entering into environmental waters, waste water or soil.

13 Disposal considerations


- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste or solvent waste.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Ethyl acetate
- **Class:** 3
- **UN-number:** 1173
- **Packing group:** II
- **Classification code:** F1
- **Limited quantities (Table 3.4.6. ADR):** 1 L
- **Hazard classification number:** 33
- **Special provisions (Chapter 3.3 ADR):** 274, 640E
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-E, S-D
- **Properties:** Fp= -4°C

15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**
The product is classified and labelled according to GHS-regulations.
- **Hazard symbols:** GHS02, GHS07

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P243 Take precautionary measures against static discharge

• **National regulations (Germany):**

• **Water hazard class:** see chapter 12

• **Storage class TRGS 510:** 3

• **VbF class:** A1

16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

• **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.