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

- **Informations to product No. 5222**
- **Product name:**

Dimethylfumarat, API
Dimethylis fumaras

- **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:** Warning


- **H-Phrases:**

H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

- **P-Phrases:**

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 IF ON SKIN:
P305 IF IN EYES:
P351 Rinse cautiously with water for several minutes.

Acute Tox. 1
Skin Irrit. 2

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Skin Sens. 1

Eye Irrit. 2

3 Composition / information on ingredients

• **Chemical characterization:**

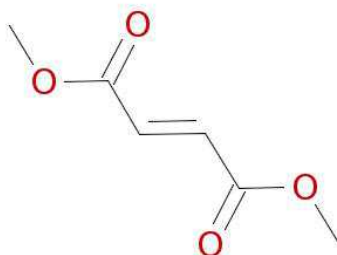
CAS-No. Substance name

624-49-7 Dimethyl fumarate

• **EINECS-No.:** 210-849-0

• **REACH Reg. No.:** (pre-registered)

• **INCI-Name:** -



4 First aid measures


- **After inhalation:** Fresh air. If irritation of respiratory ways continues, seek medical advice.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap. If irritation continues, seek medical advice.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** Induce vomiting, 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 but not flammable. In case of fire dangerous gases / vapours can be released: Smoke gases.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

6 Accidental release measures

- **Personal protective measures:** Avoid dust formation and contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.

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• **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage

- **Handling:**
- **Advice on safe handling:** Avoid contact with skin and eyes. When using do not eat or drink - do not smoke. Comply with the health and safety regulations.
- **Informations to fire or explosion protection:** Sources of ignition and provide good ventilation.
- **Storage:**
- **Requirements for storage areas and containers:** Keep container tightly closed. Do not empty containers with pressure, no pressure-container. Protect from heat and direct sunlight. Keep container in a cool, well-ventilated place.
- **Advices on common storage:** from combustible materials, reducing agents (eg amines), acids, alkalis, heavy metal compounds away.
- **Additional informations to storage conditions:** no data available

8 Exposure controls / personal protective equipment

Components with limit values that require monitoring at the workplace: none


- **General information:**
- **Personal protective equipment:** The usual precautions for handling chemicals should be observed. Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration of solvent vapors below the OEL OEL, suitable respiratory protection must be worn.
- **General protective and hygiene measures:**
Wash hands before breaks and after work. Avoid inhalation of dust. Avoid contact with eyes and skin.
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of latex or rubber.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties

- **Form:** powder
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** no data available
- **Boiling point / boiling range:** no data available
- **Ignition temperature:** no data available
- **Density:** 1,37 g/cm³
- **Explosion hazard:** no data available
- **Solubility in / Miscibility with**
- **Water:** no data available
- **pH-range:** no data available

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.

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- **Hazardous reactions:** Reactions with oxidants, strong bases and acids..
- **Hazardous decomposition products:** At high temperatures may produce hazardous decomposition products such as Carbon monoxide and dioxide, smoke, oxides of nitrogen.

11 Toxicological information

- **Acute toxicity:**
LD/LD50-data relevant for hazard classification:
Oral: LD50: rat: 2240 mg/kg
Dermal LD50: rabbit: 1250mg/kg
- **Primary irritant effect:**
- **on eyes:** Irritant.
- **on respiratory organs:** Irritant
- **Sensitization:** Sensitization and skin irritations possible.

12 Ecological information

- **Ecotoxicical effects:**
EC50 (Daphnia magna) 1,2mg/l
- **General advices:** Prevent from entering sewage water or drainage ditch undiluted or unneutralized.
Not readily biodegradable.
- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

13 Disposal considerations


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

14 Transport informations

- **Land transport according to ADR:**
Not classified as dangerous in the meaning of transport regulations.

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:** GHS07
- **Signal word:** Warning
- **H-Phrases:**
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H319 Causes serious eye irritation.

• **P-Phrases:**

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P351 Rinse cautiously with water for several minutes.

• **National regulations (Germany):**

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

• **Storage class TRGS 510:** 11

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.