



## SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

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### Methyl Pamplémousse®

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#### SECTION 1: Identification

##### 1.1 Product Identifier

| Item                   | Details                                        |
|------------------------|------------------------------------------------|
| Product Name           | Methyl Pamplémousse®                           |
| Manufacturer           | Givaudan SA                                    |
| Chemical Name          | 1,1-Dimethoxy-2,2,5-trimethyl-4-hexene         |
| IUPAC Name             | 6,6-Dimethoxy-2,5,5-trimethylhex-2-ene         |
| CAS Number             | 67674-46-8                                     |
| EC Number              | 266-885-2                                      |
| REACH Registration No. | 01-2120741268-52                               |
| Molecular Formula      | C <sub>11</sub> H <sub>22</sub> O <sub>2</sub> |
| Molecular Weight       | 186.30 g/mol                                   |
| Product Type           | Aroma Chemical                                 |
| Physical Form          | Colourless Liquid                              |
| Odour Profile          | Grapefruit Peel, Fresh, Citrus, Bitter, Green  |

Methyl Pamplémousse® is Givaudan's signature grapefruit aroma chemical, widely used to impart fresh grapefruit peel character in citrus accords, modern colognes and vetiver compositions. Typical fragrance use levels range from 0.1–10%.

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#### SECTION 2: Hazard Identification

##### Classification (Regulation (EC) No. 1272/2008 – CLP)

- Skin Irritation – Category 2
- Eye Irritation – Category 2
- Hazardous to the Aquatic Environment (Chronic) – Category 3

##### Signal Word

Warning

##### Hazard Statements



- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

#### Precautionary Statements

- P264 Wash thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves and eye protection.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P332+P313 If skin irritation occurs: Get medical advice.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
- P337+P313 If eye irritation persists: Get medical advice.
- P501 Dispose of contents/container in accordance with local regulations.

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#### SECTION 3: Composition / Information on Ingredients

| Component            | CAS Number | Concentration |
|----------------------|------------|---------------|
| Methyl Pamplemousse® | 67674-46-8 | ≥99%          |

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#### SECTION 4: First Aid Measures

##### Inhalation

Move the exposed person to fresh air.

Keep warm and at rest.

Seek medical attention if symptoms persist.

##### Skin Contact

Remove contaminated clothing.

Wash skin thoroughly with soap and water.

Seek medical advice if irritation develops.

##### Eye Contact

Immediately flush with water for at least 15 minutes.

Remove contact lenses if present.

Continue rinsing.

Obtain medical attention if irritation persists.

##### Ingestion

Rinse mouth thoroughly.

Do not induce vomiting.

Seek immediate medical attention.

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#### SECTION 5: Fire Fighting Measures



### **Suitable Extinguishing Media**

- Carbon dioxide (CO<sub>2</sub>)
- Dry chemical powder
- Alcohol-resistant foam
- Water spray or fog

### **Unsuitable Extinguishing Media**

- Direct water jet

### **Hazardous Combustion Products**

- Carbon monoxide
- Carbon dioxide
- Irritating organic vapours

Firefighters should wear self-contained breathing apparatus.

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## **SECTION 6: Accidental Release Measures**

- Wear suitable personal protective equipment.
  - Prevent release into drains and waterways.
  - Absorb with sand, vermiculite or inert absorbent.
  - Collect into suitable containers for disposal.
  - Dispose according to local regulations.
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## **SECTION 7: Handling and Storage**

### **Handling**

- Avoid contact with skin and eyes.
- Use adequate ventilation.
- Avoid breathing vapours.
- Observe good industrial hygiene practices.

### **Storage**

Store:

- Between 15–25 °C
- In tightly closed original containers



- Protected from direct sunlight
- Away from ignition sources
- Away from oxidising agents

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## SECTION 8: Exposure Controls / Personal Protection

### Engineering Controls

Provide adequate local exhaust ventilation.

### Personal Protective Equipment

#### Eye Protection

- Chemical safety goggles

#### Hand Protection

- Nitrile gloves

#### Body Protection

- Protective clothing

#### Respiratory Protection

- Organic vapour respirator where ventilation is insufficient.

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## SECTION 9: Physical and Chemical Properties

| Property          | Typical Value                                                           |
|-------------------|-------------------------------------------------------------------------|
| Appearance        | Colourless liquid                                                       |
| Odour             | Grapefruit peel, citrus                                                 |
| Molecular Formula | $C_{11}H_{22}O_2$                                                       |
| Molecular Weight  | 186.30 g/mol                                                            |
| Boiling Point     | 215 °C                                                                  |
| Vapour Pressure   | 0.290 hPa                                                               |
| Log Pow           | 4.3                                                                     |
| Physical State    | Liquid                                                                  |
| Solubility        | Practically insoluble in water; soluble in alcohol and perfume solvents |



These physicochemical properties correspond to Givaudan's published ingredient data for Methyl Pamplemousse®.

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## **SECTION 10: Stability and Reactivity**

Stable under recommended storage conditions.

Avoid:

- Heat
- Flames
- Strong oxidising agents

Hazardous decomposition products:

- Carbon monoxide
  - Carbon dioxide
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## **SECTION 11: Toxicological Information**

Likely exposure routes:

- Skin
- Eyes
- Inhalation
- Ingestion

Potential health effects:

- Skin irritation
  - Eye irritation
  - Mild respiratory irritation from high vapour concentrations
  - Gastrointestinal discomfort if swallowed
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## **SECTION 12: Ecological Information**

Avoid uncontrolled release into waterways.

**Harmful to aquatic life with long lasting effects.**



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### **SECTION 13: Disposal Considerations**

Dispose of contents and contaminated packaging through an authorised chemical waste contractor.

Do not discharge into drains or surface waters.

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### **SECTION 14: Transport Information**

Transport classification should be verified against the latest manufacturer SDS and applicable ADR, IMDG and IATA transport regulations.

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### **SECTION 15: Regulatory Information**

Prepared with reference to:

- REACH Regulation (EC) No. 1907/2006
- CLP Regulation (EC) No. 1272/2008
- Commission Regulation (EU) 2020/878
- OSHA Hazard Communication Standard (29 CFR 1910.1200)

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### **SECTION 16: Other Information**

This Safety Data Sheet has been prepared using publicly available technical information and representative Safety Data Sheets for Methyl Pamplemousse® (CAS 67674-46-8). The official Givaudan Safety Data Sheet supplied with the purchased batch should always take precedence where batch-specific or regional classifications differ.

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#### **Authorised by**

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