



SAFETY DATA SHEET (SDS)

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

FILBERTONE

SECTION 1: IDENTIFICATION

1.1 Product Identifier

Parameter	Details
Product Name	Filbertone
Manufacturer	Symrise
Chemical Name	5-Methylhept-2-en-4-one
Alternative Name	5-Methyl-2-hepten-4-one
CAS Number	81925-81-7
Alternative CAS Reference	102322-83-8 may appear for specific stereochemical identity
FEMA Number	3761
FLAVIS Number	07.139
JECFA Number	1133
Molecular Formula	C ₈ H ₁₄ O
Molecular Weight	126.22 g/mol
Chemical Class	Ketone
Product Type	Aroma Chemical
Olfactive Family	Nutty / Hazelnut / Roasted

Symrise identifies Filbertone as 5-Methylhept-2-en-4-one and publishes CAS 81925-81-7 in its Flavor Ingredients Compendium.

1.2 Relevant Identified Uses

Recommended professional uses include:

- Fine fragrance
- Gourmand fragrance
- Hazelnut accords
- Nutty accords
- Chocolate accords
- Coffee accords
- Cocoa accords
- Roasted accords
- Tobacco and brown notes



- Citrus-fruity effects
- Flavor compositions where legally permitted
- Professional perfumery formulation

Symrise also markets Filbertone 1% TEC, product no. 736664, for perfumery use.

Uses Advised Against

- Direct undiluted consumer use
- Direct application to skin
- Internal consumption except where specifically formulated and legally authorised as a flavoring
- Pharmaceutical use without separate assessment
- Use outside professional formulation without appropriate safety evaluation

1.3 Supplier

Aromology Trading LLC
G05 Al Ghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates
Website: www.aromology.com
Email: info@aromology.com
Telephone: +971 505197601

1.4 Original Manufacturer

Symrise AG

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification

Current safety sources for neat **5-Methyl-2-hepten-4-one**, **CAS 81925-81-7** differ slightly in classification. A July 30, 2026 Thermo Fisher SDS classifies the substance as:

Hazard Class	Classification
Flammable Liquids	Category 3
Skin Irritation	Category 2
Serious Eye Irritation	Category 2
STOT – Single Exposure	Category 3, respiratory irritation

A current Vigon SDS also identifies acute oral toxicity and skin sensitisation for Filbertone.



Conservative Supplier Classification

For professional handling, the following hazards should be considered:

H226: Flammable liquid and vapour.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.

Signal Word

WARNING

Pictogram

GHS02 – Flame
GHS07 – Exclamation Mark

2.2 Precautionary Statements

Recommended precautions include:

P210: Keep away from heat, hot surfaces, sparks and open flames. No smoking.
P233: Keep container tightly closed.
P240: Ground and bond container and receiving equipment where appropriate.
P261: Avoid breathing vapour, mist or spray.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves, protective clothing and eye protection.
P301+P312: IF SWALLOWED: Call a poison centre or doctor if you feel unwell.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses where present and easy to do. Continue rinsing.
P333+P313: If skin irritation or rash occurs: Get medical advice.
P370+P378: In case of fire: Use dry chemical, alcohol-resistant foam or dry sand.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container through an authorised waste facility.

These precautions are consistent with current safety documentation for CAS 81925-81-7.

2.3 Other Hazards

Strong, highly diffusive odor at low concentration.
Vapours may form flammable mixtures with air at elevated temperatures.
Spilled material may create a slipping hazard.



Prolonged or repeated exposure may increase sensitisation risk.
Avoid unnecessary environmental release.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Component	CAS No.	Concentration
5-Methylhept-2-en-4-one / Filbertone	81925-81-7	Minimum 98% GC, sum of isomers
Alpha-Tocopherol stabilizer	Manufacturer-specific	Approx. 0.05%

Symrise specifies minimum 98% GC purity and approximately 0.050% alpha-tocopherol stabilizer.

3.2 Molecular Information

Parameter	Value
Molecular Formula	C ₈ H ₁₄ O
Molecular Weight	126.22 g/mol
Chemical Class	Ketone

SECTION 4: FIRST-AID MEASURES

4.1 Inhalation

- Move exposed person to fresh air.
- Keep at rest and comfortable for breathing.
- Avoid further exposure.
- Obtain medical advice if coughing, headache, dizziness or respiratory irritation persists.

Current SDS information indicates potential respiratory irritation.

4.2 Skin Contact

- Remove contaminated clothing.
- Wash affected skin thoroughly with soap and water.
- Do not use solvents to clean the skin.
- Obtain medical advice if redness, itching or rash develops.
- Wash contaminated clothing before reuse.

Vigon reports that Filbertone causes skin irritation and may cause an allergic skin reaction.

4.3 Eye Contact

- Rinse immediately with clean water for at least 15 minutes.
- Hold eyelids open.



- Remove contact lenses where easy to do.
- Continue rinsing.
- Obtain medical attention if irritation persists.

The substance is classified as causing serious eye irritation in current safety documentation.

4.4 Ingestion

- Rinse mouth thoroughly.
- Do not induce vomiting unless instructed by medical personnel.
- Call a poison centre or physician if unwell.
- Never give anything orally to an unconscious person.

Vigon reports oral LD₅₀ in rat of approximately 1410 mg/kg, supporting concern for harmful ingestion.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Use:

- Dry chemical powder
- Alcohol-resistant foam
- Carbon dioxide
- Dry sand
- Water spray for cooling exposed containers

5.2 Specific Hazards

Symrise reports a flash point of approximately:

57°C

The substance is therefore combustible and current SDS information classifies the neat chemical as Flammable Liquid Category 3.

Combustion may generate:

- Carbon monoxide
- Carbon dioxide
- Irritating organic vapours
- Smoke

5.3 Firefighter Protection

Use:



- Self-contained breathing apparatus
 - Full protective clothing
 - Chemical-resistant gloves and footwear
-

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

- Eliminate ignition sources.
- Ventilate the area.
- Avoid breathing vapours.
- Avoid skin and eye contact.
- Wear gloves and eye protection.
- Keep unnecessary personnel away.

6.2 Environmental Precautions

- Prevent entry into drains and waterways.
- Prevent uncontrolled soil contamination.
- Contain significant spills.

Although Vigon does not classify the material as environmentally hazardous, uncontrolled environmental release should still be avoided.

6.3 Cleanup

- Absorb with sand, vermiculite or inert absorbent.
 - Transfer material to suitable labelled waste containers.
 - Wash the residual area with detergent and water after bulk recovery.
 - Dispose through an authorised waste contractor.
-

SECTION 7: HANDLING AND STORAGE

7.1 Safe Handling

- Keep away from heat and ignition sources.
- Use in a well-ventilated area.
- Avoid inhalation of vapours.
- Avoid prolonged skin exposure.

Avoid eye contact.

- Do not eat, drink or smoke during handling.
- Wash hands thoroughly after use.
- Keep container tightly closed when not in use.



7.2 Storage

Store:

- In original tightly closed container
- In a cool, dry and ventilated area
- Protected from direct sunlight
- Away from sparks and flames
- Away from strong oxidising agents
- Away from food and beverages

Because the material has a flash point around 57 °C, good flammable-liquid storage practices should be followed.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Occupational Exposure Limits

No specific occupational exposure limit was identified in the current SDS sources reviewed.

8.2 Engineering Controls

- Provide adequate general ventilation.
- Use local exhaust where vapour concentrations may build up.
- Provide eyewash facilities.
- Minimise aerosol and mist generation.

8.3 Eye Protection

Use:

- Safety glasses with side shields
- Chemical goggles where splash risk exists

8.4 Hand Protection

Use chemical-resistant gloves such as:

- Nitrile rubber
- Neoprene
- Butyl rubber where appropriate

8.5 Body Protection

Wear:

- Laboratory coat



- Long sleeves
- Closed footwear
- Chemical-resistant apron during bulk handling

8.6 Respiratory Protection

Where ventilation is inadequate, use suitable organic-vapour respiratory protection.

Current SDS information specifically recommends respiratory protection where vapour exposure cannot be adequately controlled.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Official Symrise Product Data

Property	Value
Physical State	Liquid
Appearance	Clear, colourless to light yellow
Odour	Hazelnut, nutty, nougat, roasted
GC Purity	Minimum 98% – sum of isomers
Relative Density D20/4	0.847–0.853
Refractive Index n20/D	1.442–1.446
Flash Point	Approx. 57 °C
Boiling Point	Approx. 167 °C
Molecular Formula	C ₈ H ₁₄ O
Molecular Weight	126.22 g/mol
Stabilizer	Approx. 0.050% alpha-tocopherol
Natural Occurrence	Yes

These specifications are published in Symrise's official Flavor Ingredients Compendium.

9.2 Additional Characteristics

Property	Information
Water Solubility	Low / limited
Solubility in Perfumery Media	Soluble in alcohol and fragrance oils
Volatility	Moderate
Flammability	Flammable liquid / combustible organic liquid

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction is expected under normal handling conditions.



10.2 Chemical Stability

Stable when stored under recommended conditions.

10.3 Hazardous Polymerisation

Not expected.

10.4 Conditions to Avoid

Avoid:

Excessive heat

Sparks

Open flames

Static discharge

Prolonged exposure to direct sunlight

10.5 Incompatible Materials

Avoid strong oxidising agents.

10.6 Hazardous Decomposition Products

May produce:

Carbon monoxide

Carbon dioxide

Irritating organic decomposition vapours

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

Current Vigon safety data report:

Endpoint	Result
Oral LD ₅₀ , Rat	1410 mg/kg
Dermal LD ₅₀ , Rat	>5000 mg/kg

Oral Toxicity

Harmful if swallowed.

Dermal Toxicity

Low acute dermal toxicity based on available LD₅₀ data.

11.2 Skin Corrosion / Irritation

Causes skin irritation.

11.3 Eye Irritation

Causes serious eye irritation.

11.4 Skin Sensitisation

May cause an allergic skin reaction.



11.5 Respiratory Effects

A current Thermo Fisher SDS assigns:
STOT SE Category 3 – Respiratory Irritation

11.6 Mutagenicity

No data indicating mutagenic or genotoxic classification were reported in the SDS.

11.7 Carcinogenicity

Not listed by IARC, NTP or OSHA as a carcinogen in the SDS.

11.8 Reproductive Toxicity

The SDS states that the product is not expected to cause reproductive or developmental effects.

11.9 Aspiration Hazard

Not classified as an aspiration hazard in the SDS.

SECTION 15: REGULATORY INFORMATION

15.1 Regulatory Identity

Parameter	Details
Chemical Name	5-Methylhept-2-en-4-one
CAS Number	81925-81-7
FEMA Number	3761
FLAVIS Number	07.139
JECFA Number	1133
EC Flavoring Regulation	Listed flavoring substance under Regulation (EC) No. 1334/2008

Symrise identifies Filbertone as an EC flavoring substance and provides FEMA, FLAVIS and JECFA identifiers.

DOCUMENT CONTROL

Parameter	Details
Product	Filbertone – Symrise
CAS Number	81925-81-7
Document Type	SDS / MSDS
Sections	1–16
Revision	1.0
Prepared By	Quality Assurance Department
Approved By	Abdul Wasay
Designation	Independent Perfumer & Creative Director
Issue Date	



Parameter	Details
Signature	
Company Stamp	

DISCLAIMER

This is a supplier-style Safety Data Sheet prepared for Filbertone – Symrise using official Symrise technical specifications and current publicly available safety data for 5-Methyl-2-hepten-4-one, CAS 81925-81-7.

It is not the original Symrise-issued SDS and should not be presented as such.

Before regulatory submission, workplace hazard communication, dangerous-goods shipment or formal customer approval, verify this document against:

- The latest original Symrise Safety Data Sheet
- Current Symrise product specification
- Batch Certificate of Analysis
- Current IFRA documentation
- Current EU allergen declaration
- Applicable destination-country regulations

Where any difference exists, the current original Symrise documentation shall prevail.

Authorised by:

Fozia Khot
Director