



SAFETY DATA SHEET (SDS)

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

Melafleur

SECTION 1: IDENTIFICATION

Product Name: Melafleur

Manufacturer: IFF

Product Code: H13052

Chemical Name: 1,2,3,4,5,6,7,8-Octahydro-8,8-dimethyl-2-naphthaldehyde

CAS Number: 68991-97-9

EC Number: 273-661-8

REACH Registration Number: 01-2120769904-40

Product Type: Synthetic Aroma Chemical / Perfumery Raw Material

Recommended Use: Raw Material Used in Perfumery Preparations

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

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance

Classification according to Regulation (EC) No. 1272/2008 (CLP):

Hazard Class	Classification
Skin Sensitisation	Category 1 – H317
Hazardous to the Aquatic Environment – Chronic	Category 2 – H411
Physical Hazards	Not Classified

2.2 Label Elements



Signal Word: WARNING

Hazard Pictograms:

GHS07 – Exclamation Mark

GHS09 – Environment

Hazard Statements

H317 – May cause an allergic skin reaction.

H411 – Toxic to aquatic life with long lasting effects.

Precautionary Statements

P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 – Wear protective gloves.

P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.

P391 – Collect spillage.

P501 – Dispose of contents/container to hazardous or special waste collection point.

2.3 Other Hazards

The substance does not fulfil the PBT or vPvB criteria in accordance with Annex XIII of REACH Regulation (EC) No. 1907/2006.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	EC Number	Concentration
1,2,3,4,5,6,7,8-Octahydro-8,8-dimethyl-2-naphthaldehyde	68991-97-9	273-661-8	90–100%
3,4-Dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-ol	10191-41-0	233-466-0	0.1–1%

Classification of Components

Component	Classification
CAS 68991-97-9	Skin Sens. 1B, H317; Aquatic Chronic 2, H411
CAS 10191-41-0	Skin Sens. 1B, H317

Acute Toxicity Estimate (Oral) for CAS 68991-97-9: ATE = 4100 mg/kg body weight

The supplied SDS identifies the principal substance at 90–100% and the secondary constituent at 0.1–1%.

SECTION 4: FIRST-AID MEASURES



Exposure Route	First-Aid Measures
Skin Contact	Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. If an allergic reaction occurs, seek medical attention.
Ingestion	Do not give anything orally to an unconscious person. If a small quantity is swallowed, rinse the mouth with water and consult a doctor. Seek immediate medical attention and show the product label.
Eye Contact	No specific procedure stated in the supplied SDS.
Inhalation	No specific procedure stated in the supplied SDS.

Most Important Symptoms and Effects: No data available.

Immediate Medical Attention / Special Treatment: No data available.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability: Non-Flammable

Parameter	Information
Suitable Extinguishing Media	Carbon dioxide (CO ₂), powder, foam
Unsuitable Extinguishing Media	Water jet
Special Hazards	Fire may produce thick black smoke; decomposition products may be hazardous
Hazardous Combustion Products	Carbon monoxide (CO), carbon dioxide (CO ₂)
Advice for Firefighters	No specific data available

Do not breathe smoke generated during a fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Avoid contact with skin and eyes.

Use suitable personal protective equipment as described in Section 8.

6.2 Environmental Precautions

Contain and control leaks or spills using non-combustible absorbent materials such as:

Sand • Earth • Vermiculite • Diatomaceous Earth

Prevent material from entering drains or waterways.

6.3 Methods for Cleaning Up

Clean preferably with a detergent.



Do not use solvents.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Always wash hands after handling.

Remove and wash contaminated clothing before reuse.

Individuals with a history of skin sensitisation should not handle this substance.

Prevent access by unauthorised personnel.

Observe precautions stated on the label and applicable industrial safety regulations.

Do not smoke, eat or drink in areas where the substance is used.

7.2 Conditions for Safe Storage

No specific storage conditions are provided in the supplied SDS.

Packaging: Always keep in packaging made of material identical to the original packaging.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Occupational Exposure Limits: No data available.

8.2 Personal Protective Equipment

Protection	Recommendation
Eye / Face Protection	Safety goggles designed to protect against liquid splashes in accordance with ISO 16321
Hand Protection	Chemical-resistant protective gloves in accordance with EN ISO 374-1
Body Protection	Suitable protective clothing
Substantial Spatter	Type 3 liquid-tight chemical protective clothing according to EN14605/A1
Risk of Splashing	Type 6 chemical protective clothing according to EN13034/A1
Ventilation	Ensure adequate ventilation, especially in confined areas

PPE should be clean, properly maintained and stored away from the work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical State	Fluid Liquid
Colour	Unspecified
Odour Threshold	Not Stated
Melting Point / Range	Not Specified



Property	Value
Freezing Point / Range	Not Stated
Boiling Point / Range	Not Specified
Flammability	Not Stated
Lower Explosive Limit	Not Stated
Upper Explosive Limit	Not Stated
Flash Point	104 °C
Auto-Ignition Temperature	Not Specified
Decomposition Temperature	Not Specified
pH	Not Relevant
Kinematic Viscosity	Not Stated
Water Solubility	Insoluble
Fat Solubility	Not Stated
Partition Coefficient (log Pow)	4.35
Vapour Pressure at 50 °C	Not Relevant
Density	Refer to COA
Vapour Density	Not Stated
Nanoforms	None

The supplied SDS specifies a 104 °C flash point, water insolubility and log Pow 4.35; density is expressly referenced to the COA.

SECTION 10: STABILITY AND REACTIVITY

Parameter	Information
Reactivity	No data available
Chemical Stability	Stable under recommended handling and storage conditions
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	Heat
Incompatible Materials	Strong acids, alkalis and oxidising agents
Hazardous Decomposition Products	Carbon monoxide (CO), carbon dioxide (CO ₂)

SECTION 11: TOXICOLOGICAL INFORMATION

Endpoint	Information
Oral LD ₅₀	4100 mg/kg body weight
Dermal LD ₅₀	>5000 mg/kg body weight – Rabbit
Skin Sensitisation	May cause an allergic reaction by skin contact
Skin Irritation	No data available



Endpoint	Information
Eye Irritation	No data available
Ames Test	Negative
Carcinogenicity	No data available
Reproductive Toxicity	No data available
STOT – Single Exposure	No data available
STOT – Repeated Exposure	No data available
Aspiration Hazard	No data available

The substance has not been evaluated as an endocrine disruptor with effects on human health.

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Classification: Toxic to aquatic life with long lasting effects.

Do not allow the product to enter drains or waterways.

Endpoint	Information
Principal Substance Biodegradability	Non-Rapidly Degradable
Secondary Constituent Biodegradability	Considered Not Rapidly Degrading
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
PBT / vPvB Assessment	No data available in Section 12
Environmental Endocrine Disruption	Not Evaluated
Other Adverse Effects	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste must be managed without endangering human health or harming:

Recycle or dispose of waste in accordance with applicable legislation through a certified waste collector or disposal company.

Contaminated Packaging: Empty completely, retain labels and send to a certified disposal contractor.

SECTION 14: TRANSPORT INFORMATION



Transport Parameter	Classification
UN Number	UN 3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.
Technical Name	1,2,3,4,5,6,7,8-Octahydro-8,8-dimethyl-2-naphthaldehyde
Transport Hazard Class	9
Packing Group	III
Environmental Hazard	Yes
Marine Pollutant	Yes

ADR / RID

Class: 9

Classification Code: M6

Packing Group: III

Label: 9

Limited Quantity: 5 L

Not subject to the stated ADR provision where quantity is ≤ 5 L / 5 kg, subject to applicable conditions.

IMDG

Class: 9

Packing Group: III

Limited Quantity: 5 L

EmS: F-A, S-F

IATA

Class: 9

Packing Group: III

The transport section of the supplied SDS classifies Melafleur TOCO as UN3082, Class 9, Packing Group III. The applicable ADR, IMDG and IATA exemptions for quantities ≤ 5 L / 5 kg are also stated in the source.

SECTION 15: REGULATORY INFORMATION

According to the supplied SDS:

REACH Annex XVII: Substance Not Restricted

REACH Annex XIV: Substance Not Subject to Authorisation

Ozone-Depleting Substance: No

Explosives Precursor Regulation: Not Subject

Chemical Safety Assessment: No Data Available.



SECTION 16: OTHER INFORMATION

FULL HAZARD STATEMENTS

H317 – May cause an allergic skin reaction.

H411 – Toxic to aquatic life with long lasting effects.

ABBREVIATIONS

LD50: Dose of a test substance resulting in 50% lethality in a given time period

ATE: Acute Toxicity Estimate

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very Persistent and Very Bioaccumulative

SVHC: Substance of Very High Concern.

DISCLAIMER

The information contained in this Safety Data Sheet describes the safety requirements and characteristics of Melafleur based on the available product-specific technical and safety information.

The information is provided as guidance for safe handling, storage, transportation and use and does not constitute a guarantee of specific product properties.

Users are responsible for determining the suitability of the material for their intended application and for ensuring compliance with applicable local regulations.

Authorised by:

Fozia Khot

Director