



SAFETY DATA SHEET (SDS)

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

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Product Identifier

Parameter	Details
Trade Name	Aphermate®
Marketing Description	Apple-Pine
Manufacturer	International Flavors & Fragrances Inc. (IFF)
IFF IPC Number	36700
Chemical Name	1-(3,3-Dimethylcyclohexyl)ethyl formate
Chemical Family	Formate ester
CAS Number	25225-08-5
EC Number	246-735-2
Molecular Formula	C ₁₁ H ₂₀ O ₂
Molecular Weight	184.3 g/mol
REACH Registration No.	01-2119979543-25
Grade	Professional perfumery grade

IFF's ingredient compendium lists CP Formate Aphermate under CAS 18479-58-8, while commercial SDSs for Aphermate® identify CAS 25225-08-5. Always use the CAS number shown on the manufacturer documentation for the supplied batch.

1.2 Recommended Uses

- Fragrance ingredient
- Fine fragrance
- Personal-care products
- Soap and detergents
- Fabric care
- Air-care products
- Candles
- Professional fragrance formulation

1.3 Uses Advised Against

- Internal consumption
- Direct undiluted skin application
- Pharmaceutical use
- Food or flavour use unless specifically approved



- Use by children
- Consumer use as supplied

1.4 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

1.5 Manufacturer

International Flavors & Fragrances Inc. (IFF)

SECTION 2: HAZARDS IDENTIFICATION

2.1 GHS Classification

Based on currently available SDS information:

Hazard Class	Classification
Hazardous to the Aquatic Environment (Chronic)	Category 2

Some non-IFF SDSs classify additional hazards (skin irritation, eye irritation and skin sensitisation). These depend on the specific commercial grade and supplier formulation and should be confirmed against the original IFF SDS before issue.

2.2 Label Elements

Signal Word

No signal word required under the cited IFF-type SDS.

Hazard Pictogram

GHS09 – Environment

Hazard Statement

H411 – Toxic to aquatic life with long lasting effects.

Precautionary Statements



- P273 Avoid release to the environment.
- P391 Collect spillage.
- P501 Dispose of contents/container in accordance with local regulations.
- P102 Keep out of reach of children.

2.3 Other Hazards

- Avoid uncontrolled environmental release.
- Product is intended for professional use.
- Spills may create slipping hazards.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	Information
Chemical Name	1-(3,3-Dimethylcyclohexyl)ethyl formate
CAS	25225-08-5 (commercial SDS)
EC	246-735-2
Formula	$C_{11}H_{20}O_2$
Molecular Weight	184.3 g/mol
Purity	Typically >98% (batch dependent)

SECTION 4: FIRST-AID MEASURES

Inhalation

Move to fresh air. Seek medical attention if symptoms persist.

Skin Contact

Wash thoroughly with soap and water. Remove contaminated clothing.

Eye Contact

Flush immediately with water for at least 15 minutes. Obtain medical advice if irritation continues.

Ingestion

Rinse mouth with water.

Do not induce vomiting unless directed by medical personnel.

Seek medical advice.

Most Important Symptoms

Possible irritation after prolonged exposure.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:

- Dry chemical
- Carbon dioxide
- Alcohol-resistant foam
- Water fog



Hazardous combustion products:

- Carbon monoxide
- Carbon dioxide
- Irritating organic vapours

Firefighters should wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Prevent release to drains.
- Absorb with inert material.
- Collect into suitable containers.
- Dispose according to regulations.

SECTION 7: HANDLING AND STORAGE

Handle with adequate ventilation.

Avoid unnecessary exposure.

Store:

- 15–25 °C
- Original tightly closed container
- Dry area
- Away from sunlight
- Away from oxidising agents

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

General ventilation.

Eye Protection

Safety glasses.

Hand Protection

Chemical-resistant nitrile gloves.

Skin Protection

Laboratory coat.

Respiratory Protection

Normally unnecessary with adequate ventilation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Clear liquid



Colour	Colourless to pale yellow
Odour	Fresh pine, herbal, earthy, green apple
Molecular Weight	184.3 g/mol
Formula	$C_{11}H_{20}O_2$
Vapour Pressure (23 °C)	0.100736 mmHg
Log P	3.8
Water Solubility	Slight
Flash Point	Batch specific
Relative Density	Batch specific
Refractive Index	Batch specific
Typical Use Level	Up to 20% (olfactory guidance only)
Substantivity	Approximately 12 hours

The odour profile and typical use level are published by IFF and are not safety limits.

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage.

Avoid:

- Strong oxidisers
- Excessive heat
- Open flames

Hazardous decomposition:

- CO
- CO₂
- Organic decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION

No acute toxicity classification is assigned in the available IFF-type SDS.

Potential routes:

- Skin
- Eyes
- Inhalation
- Ingestion

Treat symptomatically.



SECTION 12: ECOLOGICAL INFORMATION

Classification:

Aquatic Chronic Category 2

Hazard Statement:

H411

Avoid environmental release.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose through an authorised waste contractor.

Do not discharge into drains or waterways.

SECTION 14: TRANSPORT INFORMATION

Transport classification should be confirmed using the current manufacturer SDS and applicable transport regulations.

Where applicable:

- Transport according to ADR, IMDG and IATA requirements.
- Prevent leakage during transport.

SECTION 15: REGULATORY INFORMATION

Applicable regulations include:

- REACH
- CLP
- Regulation (EU) 2020/878
- IFRA Standards
- EU Cosmetics Regulation 1223/2009
- Regulation (EU) 2023/1545

SECTION 16: OTHER INFORMATION

Olfactive Description

Fresh pine, herbal and earthy character with noticeable green apple nuances at low concentration.

Performance



Suitable for:

- Fine fragrance
- Shampoo
- Soap
- Fabric conditioner
- Liquid detergent
- Candles

Sustainability (IFF)

- 91% Renewable
- Natural derived
- Upcycled
- Vegan suitable

Typical Perfumery Use

Up to 20% of the fragrance concentrate (olfactory guidance only, not an IFRA limit).

Disclaimer

This Safety Data Sheet is a professional supplier-style template prepared for Aphermate® – IFF (Apple–Pine). It is based on publicly available manufacturer and commercial SDS information and must be verified against the latest original IFF Safety Data Sheet, batch Certificate of Analysis, IFRA Certificate and regulatory documentation before commercial or regulatory use. Differences may exist between IFF product variants and commercial grades; the manufacturer's current documentation always takes precedence.

Authorised by:

Fozia Khot
Director