



A R O M O L O G Y

IFRA COMPLIANCE STATEMENT

IFRA Standards – 51st Amendment

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Scentolide

Product Identification

Item	Details
Product Name	Scentolide
Manufacturer	Synarome
Chemical Name	(Z)-7-Hexadecen-16-olide
Alternative Name	cis-Isoambrettolide
CAS Number	28645-51-4
EC Number	249-120-7
Molecular Formula	C ₁₆ H ₂₈ O ₂
Molecular Weight	252.39 g/mol
Chemical Family	Macrocyclic Lactone
Product Type	Synthetic Aroma Chemical
Physical Form	Viscous Liquid
Colour	Colourless
Odour Family	Musk / Fruity
Odour Profile	Elegant musk, warm, soft, ambrette seed, blackberry, red berries

Scentolide is a high-impact macrocyclic musk with a particularly elegant, diffusive character. Its musky ambrette profile is accompanied by distinctive blackberry and red-berry nuances.

Typical Technical Characteristics

Parameter	Specification / Typical Value
Appearance at 20 °C	Viscous liquid
Colour	Colourless
Odour	Musky
Density at 20 °C	0.953–0.968 g/mL
Refractive Index nD20	1.4815–1.4845



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Flash Point	111 °C
Assay	Cis isomer >93%
Molecular Weight	252.39 g/mol

IFRA 51 Status

Scentolide is assessed as a discrete macrocyclic musk aroma chemical.

An IFRA 51 document is available for the Synarome material.

No evidence was identified that Scentolide CAS 28645-51-4 is subject to an ingredient-specific IFRA prohibition comparable to Musk Ambrette CAS 83-66-9.

Important

Scentolide must not be confused with:

Musk Ambrette – CAS 83-66-9

Musk Ambrette is an old nitro musk prohibited by IFRA.

Scentolide is chemically different. It is a macrocyclic lactone musk.

Chemical Distinction

Material	CAS	Chemical Type
Scentolide	28645-51-4	Macrocyclic lactone musk
Ambrettolide / related macrocyclic musk	Various identity conventions	Macrocyclic lactone
Musk Ambrette	83-66-9	Nitro musk

The term “ambrette” in an odour description does not mean that Scentolide is Musk Ambrette.

IFRA Category Assessment

Based on the available regulatory information, Scentolide is not identified as having a dedicated category-dependent IFRA restriction under the 51st Amendment.

Accordingly:

IFRA Category	Status
Category 1	No ingredient-specific restriction identified
Category 2	No ingredient-specific restriction identified
Category 3	No ingredient-specific restriction identified
Category 4	No ingredient-specific restriction identified
Category 5A	No ingredient-specific restriction identified
Category 5B	No ingredient-specific restriction identified
Category 5C	No ingredient-specific restriction identified
Category 5D	No ingredient-specific restriction identified



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Category 6	No ingredient-specific restriction identified
Category 7A	No ingredient-specific restriction identified
Category 7B	No ingredient-specific restriction identified
Category 8	No ingredient-specific restriction identified
Category 9	No ingredient-specific restriction identified
Category 10A	No ingredient-specific restriction identified
Category 10B	No ingredient-specific restriction identified
Category 11A	No ingredient-specific restriction identified
Category 11B	No ingredient-specific restriction identified
Category 12	No ingredient-specific restriction identified

Meaning of “No Ingredient-Specific Restriction”

This does not mean that neat Scentolide is recommended for direct consumer application.

It means that no lower maximum concentration is being assigned in this declaration from an ingredient-specific IFRA Standard.

Use remains subject to:

- Good Manufacturing Practice
- Finished-product safety assessment
- Complete fragrance formula
- Intended consumer exposure
- Regional cosmetic legislation
- Other restricted fragrance ingredients
- Appropriate toxicological evaluation

Contributions from Other Sources

Scentolide is a high-purity single aroma chemical rather than a natural complex substance.

No additional restricted constituent should be inferred merely from its musk/berry odour profile.

The commercial grade should nevertheless be evaluated for:

- Manufacturing impurities
- Residual starting materials
- Stabiliser, if present
- Solvent or carrier, if present

according to the current manufacturer documentation.

Fine Fragrance

Fine fragrance products such as:



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- Parfum
- Extrait de Parfum
- Eau de Parfum
- Eau de Toilette
- Cologne

generally fall within IFRA Category 4.

No ingredient-specific Category 4 restriction has been identified for Scentolide itself in this assessment.

The complete perfume formula must nevertheless comply with all applicable IFRA Standards.

Declaration

Based on available manufacturer and regulatory information:

- Product: Scentolide
- Manufacturer: Synarome
- CAS: 28645-51-4
- EC: 249-120-7
- Formula: $C_{16}H_{28}O_2$
- Molecular Weight: 252.39 g/mol
- Chemical Type: Macrocyclic Lactone Musk
- Principal material: cis-Isoambrettolide
- Typical cis-isomer assay: >93%
- No ingredient-specific IFRA 51 restriction has been identified in this assessment.
- Scentolide is not Musk Ambrette (CAS 83-66-9).
- Final IFRA compliance must be determined from the complete fragrance formulation and intended application.

This document is a representative supplier regulatory declaration. The current original Synarome IFRA documentation should take precedence for formal customer submissions.

Authorised by:

Fozia Khot
Director