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IFRA COMPLIANCE STATEMENT

IFRA Standards – 51st Amendment

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Schiff Hydroxycitronellal

Product Identifier

Item	Details
Product Name	Schiff Hydroxycitronellal
Manufacturer	Synarome
Synarome Reference	085170
Chemical Description	Hydroxycitronellal–Methyl Anthranilate Schiff Base
Chemical Name	Methyl 2-[(7-hydroxy-3,7-dimethyloctylidene)amino]benzoate
CAS Number	89-43-0
EC Number	201-908-1
Molecular Formula	C ₁₈ H ₂₇ NO ₃
Molecular Weight	305.42 g/mol
Product Type	Synthetic Aroma Chemical / Schiff Base
Physical Form	Liquid
Odour Profile	Muguet, orange blossom, floral, grape, citrus, green

IFRA Identity

Schiff Hydroxycitronellal is:
Hydroxycitronellal–Methyl Anthranilate Schiff Base

Parent aldehyde:



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Hydroxycitronellal
CAS 107-75-5

Schiff base:
CAS 89-43-0

IFRA lists both the parent Hydroxycitronellal and its methyl-anthranilate Schiff base separately in its fragrance ingredient documentation.

IFRA 51 Regulatory Status

Hydroxycitronellal, CAS 107-75-5, is subject to an IFRA Restriction Standard under the 51st Amendment.

Because Schiff Hydroxycitronellal can act as a source of Hydroxycitronellal, its contribution must be included in the IFRA calculation.

According to the IFRA 51st-Amendment annex on contributions from other sources:

Schiff Hydroxycitronellal contributes 56.4% Hydroxycitronellal equivalent

For CAS 89-43-0:

Hydroxycitronellal equivalent = Schiff Hydroxycitronellal × 56.4%

This conversion factor is explicitly listed by IFRA.

IFRA Calculation Table

Schiff Hydroxycitronellal Level	Hydroxycitronellal Equivalent
0.10%	0.0564%
0.25%	0.1410%
0.50%	0.2820%
1.00%	0.5640%
2.00%	1.1280%
5.00%	2.8200%
10.00%	5.6400%

Contributions from Other Sources

The complete IFRA assessment must add Hydroxycitronellal from:

- Free Hydroxycitronellal
- Schiff Hydroxycitronellal
- Aurantiol-type Schiff bases



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- Other Hydroxycitronellal Schiff bases
- Fragrance bases containing Hydroxycitronellal
- Natural or synthetic materials contributing the same restricted substance

All contributions must be calculated cumulatively.

IFRA Category Limits

A separate independent maximum for Schiff Hydroxycitronellal should not be assigned without applying the current Hydroxycitronellal IFRA Standard.

The correct calculation is:

Maximum Schiff Hydroxycitronellal allowed

=

Applicable Hydroxycitronellal IFRA limit ÷ 0.564

provided that Schiff Hydroxycitronellal is the only source of Hydroxycitronellal.

If other sources exist, their contribution must first be deducted from the applicable Hydroxycitronellal limit.

Example

Assume:

- Schiff Hydroxycitronellal = 2.0% in fragrance concentrate
- Fragrance concentrate = 20% in finished perfume

Schiff Hydroxycitronellal in finished product:

$$2.0\% \times 20\% = 0.40\%$$

Hydroxycitronellal equivalent:

$$0.40\% \times 56.4\% = 0.2256\%$$

Therefore, the finished perfume contributes:

0.2256% Hydroxycitronellal equivalent

This must be combined with Hydroxycitronellal from every other source before checking the applicable IFRA Category 4 limit.



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Declaration

Schiff Hydroxycitronellal – Synarome:

- Product Reference: 085170
- CAS: 89-43-0
- Is a Hydroxycitronellal–Methyl Anthranilate Schiff base.
- Is subject to IFRA assessment through its Hydroxycitronellal contribution.
- IFRA conversion factor: 56.4%
- The parent Hydroxycitronellal is restricted under the IFRA 51st Amendment.
- All Hydroxycitronellal sources must be added cumulatively.
- The finished-product category and full fragrance composition determine final compliance.

This document does not replace the current original Synarome IFRA Certificate.

Authorised by:

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