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## IFRA COMPLIANCE STATEMENT

### IFRA Standards – 51<sup>st</sup> Amendment

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### Heliotropine Diethyl Acetal

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#### Product Identification

| Item                 | Details                                        |
|----------------------|------------------------------------------------|
| Product Name         | Heliotropine Diethyl Acetal                    |
| Alternative Name     | Heliotropyl Diethyl Acetal                     |
| Synonym              | Piperonyl Diethyl Acetal                       |
| Chemical Name        | 5-(Diethoxymethyl)-1,3-benzodioxole            |
| CAS Number           | 40527-42-2                                     |
| EC / EINECS Number   | 254-956-0                                      |
| Molecular Formula    | C <sub>12</sub> H <sub>16</sub> O <sub>4</sub> |
| Molecular Weight     | 224.25 g/mol                                   |
| Product Type         | Synthetic Aroma Chemical                       |
| Physical Form        | Clear Mobile Liquid                            |
| Colour               | Colourless to Pale Yellow                      |
| Odour Profile        | Floral, Heliotrope, Sweet, Spicy, Meadow-like  |
| Typical Manufacturer | Synarome                                       |

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#### FRA 51 Status

Based on the available IFRA/RIFM and fragrance-industry regulatory information for:

1,3-Benzodioxole, 5-(diethoxymethyl)-  
CAS 40527-42-2

no dedicated ingredient-specific IFRA restriction has been identified for Heliotropine Diethyl Acetal under the IFRA 51st Amendment.

The material is therefore regarded as:

**NOT RESTRICTED BY AN INGREDIENT-SPECIFIC IFRA STANDARD**



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This means there is no specific IFRA maximum concentration assigned to the neat raw material for Categories 1–12.

This status must not be confused with a recommended perfumery use level. Industry references report suggested fragrance-concentrate use levels of approximately up to 5%, but such recommendations are formulation guidance rather than an IFRA maximum concentration.

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### IFRA Category Assessment

| IFRA Category | IFRA 51 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 |
| 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 |

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### Interpretation of “Not Restricted”

“No ingredient-specific restriction identified” does not mean that unrestricted quantities should automatically be used in finished consumer products.

The finished formulation must still be assessed for:

- Overall fragrance safety
- Skin sensitisation potential
- Irritation potential
- Phototoxic ingredients
- Restricted impurities
- Other IFRA-restricted materials
- Applicable cosmetic legislation
- Intended consumer exposure
- Correct IFRA finished-product category



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### Recommended Perfumery Usage

Published fragrance-industry information indicates a recommended usage level of approximately:

Up to 5% in the fragrance concentrate

This represents a formulation recommendation, not an IFRA restriction.

Actual usage should be established according to:

- Desired olfactory effect
  - Finished fragrance concentration
  - Product application
  - Toxicological assessment
  - Complete formula composition
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### Relationship to Heliotropine / Piperonal

Heliotropine Diethyl Acetal must not be confused with:

Heliotropine / Piperonal – CAS 120-57-0

Heliotropine Diethyl Acetal is:

CAS 40527-42-2

These are chemically distinct fragrance ingredients and their respective regulatory status must be assessed separately.

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### Finished Product Compliance

The fragrance manufacturer must consider the complete fragrance formulation before issuing an IFRA Certificate for a finished fragrance.

Compliance should include assessment of:

- All restricted fragrance ingredients
- Natural complex substances
- Restricted constituents contributed by natural materials
- Phototoxic constituents
- Sensitising materials
- Relevant impurities
- Finished-product fragrance dosage



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- Applicable IFRA category
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## Declaration

Based on the available regulatory information:

- Heliotropine Diethyl Acetal is identified as CAS 40527-42-2.
- No dedicated ingredient-specific IFRA restriction has been identified under the IFRA 51st Amendment.
- No category-specific maximum concentration is therefore assigned in this raw-material declaration.
- Industry references suggest use up to approximately 5% in fragrance concentrate as an olfactory/formulation recommendation.
- This recommendation is not an IFRA maximum permitted level.
- The finished fragrance must comply with all other applicable IFRA Standards.
- Good Manufacturing Practice should be followed.

This document is a representative supplier regulatory statement and does not replace an original manufacturer IFRA declaration.

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## Authorised by:

Fozia Khot  
Director