

# Firmenich

## Presence of Fragrance Allergens

### 992964 Z11 MIP 992964

|                                                          | <u>Direct<br/>Addition</u> | <u>Indirect Nat</u> | <u>Indirect Synth</u> | <u>Total</u> |
|----------------------------------------------------------|----------------------------|---------------------|-----------------------|--------------|
| Alpha-Isomethyl-ionone<br>CAS# 127-51-5                  | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Amyl Cinnamal<br>CAS# 122-40-7                           | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| AmylCinnamyl Alcohol<br>CAS# 101-85-9                    | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Anise Alcohol<br>CAS# 105-13-5                           | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Benzyl Alcohol<br>CAS# 100-51-6                          | < 1ppm                     | < 1ppm              | 0.0009%               | 0.0009%      |
| Benzyl Benzoate<br>CAS# 120-51-4                         | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Benzyl Cinnamate<br>CAS# 103-41-3                        | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Benzyl Salicylate<br>CAS# 118-58-1                       | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Butylphenyl Methylpropional<br>CAS# 80-54-6              | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Cinnamal<br>CAS# 104-55-2                                | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Cinnamyl Alcohol<br>CAS# 104-54-1                        | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Citral<br>CAS# 5392-40-5                                 | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Citronellol<br>CAS# 106-22-9                             | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Coumarin<br>CAS# 91-64-5                                 | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Eugenol<br>CAS# 97-53-0                                  | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Evernia Furfuracea (Treemoss) Extract<br>CAS# 90028-67-4 | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Evernia Prunastri (Oakmoss) Extract<br>CAS# 90028-68-5   | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Farnesol<br>CAS# 4602-84-0                               | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Geraniol<br>CAS# 106-24-1                                | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |
| Hexyl Cinnamal<br>CAS# 101-86-0                          | < 1ppm                     | < 1ppm              | < 1ppm                | < 1ppm       |

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|---------------------------------------------------------------------------------------------|--------|--------|--------|--------|
| Hydroxycitronellal<br>CAS# 107-75-5                                                         | < 1ppm | < 1ppm | < 1ppm | < 1ppm |
| Hydroxyisohexyl-3-Cyclohexene Carboxaldehyde<br>CAS# 31906-04-4                             | < 1ppm | < 1ppm | < 1ppm | < 1ppm |
| Hydroxyisohexyl 3-&4-Cyclohexene Carboxaldehyde<br>(HMPCC)*<br>CAS# 51414-25-6 / 31906-04-4 | < 1ppm | < 1ppm | < 1ppm | < 1ppm |
| Isoeugenol<br># 97-54-1                                                                     | < 1ppm | < 1ppm | < 1ppm | < 1ppm |
| Limonene<br>CAS# 138-86-3                                                                   | < 1ppm | < 1ppm | < 1ppm | < 1ppm |
| Linalool<br>CAS# 78-70-6                                                                    | < 1ppm | < 1ppm | < 1ppm | < 1ppm |
| Methyl-2-Octynoate<br>CAS# 111-12-6                                                         | < 1ppm | < 1ppm | < 1ppm | < 1ppm |

\*corresponds to the commercial quality, which includes the major isomer 4-(4-Hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde and the minor isomer 3-(4-Hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde.

This list is comprised of the 'fragrance allergens' identified by SCCNFP and Cosmetics Europe (ex-COLIPA). These are calculated concentrations which do not replace chromatographic quantification on individual lots. '<1ppm' indicates that the substance has not been directly added. It could still arise as an impurity in added synthetics or natural ingredients at levels below 1ppm.

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