

Firmenich

Presence of Fragrance Allergens

962191 MUSCENONE®

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

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