MATERIAL INFORMATION SHEET

INTERNAL CODE: 804795
NAME: LIMUN B 4795
DATE OF FILLING: 15/9/2021
REVISION: 2

1. TECHNICAL SPECIFICATIONS

Internal Analysis Laboratory, Creasens S.r.l.

Physical Nature:	Liquid
Aspect (method CMA004):	Liquid
Colour (method CMA005):	Pale Yellow to Yellow
Odour (method CMA003):	Characteristic
Refraction Index (method CMA001):	1.469 - 1.479
Density (method CMA001):	0.862 - 0.872
Flash Point (method CMA006):	53 °C

2. ALLERGENS

NAME	CAS	QUANTITY [%]
Evernia furfuracea (Treemoss)extract	90028-67-4	0
Anise alcohol	105-13-5	0
Amylcinnamyl alcohol	101-85-9	0
Evernia prunastri (Oakmoss) extract	90028-68-5	0
Cinnamyl alcohol	104-54-1	0
Cinnamal	104-55-2	0
alpha-Isomethyl ionone	127-51-5	0
Methyl 2-octynoate	111-12-6	0
Butylphenyl methylpropional	80-54-6	0
Benzyl cinnamate	103-41-3	0
Benzyl salicylate	118-58-1	0
Coumarin	91-64-5	0
Eugenol	97-53-0	0
Farnesol	4602-84-0	0
Hexyl cinnamal	101-86-0	0
Hydroxycitronellal	107-75-5	0
Hydroxyisohexyl 3-cyclohexenecarboxaldehyde	31906-04-4	0
Isoeugenol	97-54-1	0
Limonene	5989-27-5	75,153
Citral	5392-40-5	2,348
Linalool	78-70-6	2,269
Citronellol	106-22-9	0,566
Geraniol	106-24-1	0,032
Benzyl alcohol	100-51-6	0,001
Benzyl benzoate	120-51-4	0,000

3. IFRA

Gattico-Veruno (NO), Italy, 15/9/2021

Creasens S.r.l. - Via Maggiate 22 - 28013 Gattico-Veruno (NO) - Italy
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Product: **LIMUN B 4795**

We certify that the above mixture is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA), up to and including the 50th Amendment to the IFRA Standards (published june, 2021), provided it is used in the following category(ies) at a maximum concentration level of:

IFRA category(ies)	Level of use (%)*
Category 1	0
Category 2	1.3631
Category 3	4.2596
Category 4	23.3333
Category 5.A	6.3894
Category 5.B	6.3894
Category 5.C	6.3894
Category 5.D	2.1724
Category 6	0
Category 7.A	8.5192
Category 7.B	8.5192
Category 8	2.1724
Category 9	51.1152
Category 10.A	51.1152
Category 10.B	23.3333
Category 11.A	2.1724
Category 11.B	2.1724
Category 12	100.0000

*Actual use level or maximum use level

For other kinds of application or use at higher concentration levels, a new evaluation may be needed; please contact the supplier.

Information about presence and concentration of fragrance ingredients subject to IFRA Standards in the fragrance mixture LIMUN B 4795 is as follows:

Materials under the scope of IFRA Standards		CAS Registry Number	Conc. (%)
ALL_COSM011	**Limonene**	**(CAS 5989-27-5)**	**75,1526 %**

Recommendation from IFRA Standard: Specification.

Specification note: Oxidation products of Limonene, especially hydroperoxides, have been demonstrated to be potent sensitizers. d-, l- and dl-Limonene and natural products containing substantial amounts of it, should only be used when the level of (hydro)peroxides is kept to the lowest practical level, for instance by adding antioxidants at the time of production. The addition of 0.1% BHT or a-Tocopherol for example has shown great efficiency. Such products should have a peroxide value of less than 20 millimoles per liter, determined according to the IFRA analytical method for the determination of the peroxide value, which can be downloaded from the IFRA website.

Admitted

C00598	**Diethyl phthalate**	**(CAS 84-66-2)**	**6,6500 %**

Categories (Category name: limit): (Category 1: Not allowed;Category 6: Not allowed;)

C01132	**Lime oil expressed**	**(CAS 8008-26-2)**	**3,0000 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 0,7000 %; Category 2: 0,7000 %; Category 3: 0,7000 %; Category 4: 0,7000 %; Category 5.A: 0,7000 %; Category 5.B: 0,7000 %; Category 5.C: 0,7000 %; Category 5.D: 0,7000 %; Category 6: 0,7000 %; Category 7.B: 0,7000 %; Category 8: 0,7000 %; Category 10.B: 0,7000 %; Category 11.B: 0,7000 %;)

ALL_COSM008	**Citral**	**(CAS 5392-40-5)**	**2,3476 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 0,1100 %; Category 2: 0,0320 %; Category 3: 0,1000 %; Category 4: 0,6000 %; Category 5.A: 0,1500 %; Category 5.B: 0,1500 %; Category 5.C: 0,1500 %; Category 5.D: 0,0510 %; Category 6: 0,3500 %; Category 7.A: 0,2000 %; Category 7.B: 0,2000 %; Category 8: 0,0510 %; Category 9: 1,2000 %; Category 10.A: 1,2000 %; Category 10.B: 4,2000 %; Category 11.A: 0,0510 %; Category 11.B: 0,0510 %;)

ALL_COSM021	**Linalool**	**(CAS 78-70-6)**	**2,2692 %**

Recommendation from IFRA Standard: Specification:
Oxidation products of Linalool, especially hydroperoxides, have been demonstrated to be potent sensitizers. d-, l- and dl-Linalool and natural products containing substantial amounts of it, should only be used when the level of (hydro)peroxides is kept to the lowest practical level, for instance by adding antioxidants at the time of production. The addition of 0.1% BHT or a-Tocopherol for example has shown great efficiency. Such products should have a peroxide value of less than 20 millimoles per liter, determined according to the IFRA analytical method for the determination of the peroxide value, which can be downloaded from the IFRA website.

Admitted

ALL_COSM009	**Citronellol**	**(CAS 106-22-9)**	**0,5658 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 2,2000 %; Category 2: 0,6700 %; Category 3: 13,0000 %; Category 4: 12,0000 %; Category 5.A: 3,2000 %; Category 5.B: 3,2000 %; Category 5.C: 3,2000 %; Category 5.D: 3,2000 %; Category 6: 7,3000 %; Category 7.A: 25,0000 %; Category 7.B: 25,0000 %; Category 8: 1,3000 %; Category 9: 24,0000 %; Category 10.A: 87,0000 %; Category 10.B: 87,0000 %; Category 11.A: 48,0000 %; Category 11.B: 48,0000 %;)

C01525	**(4S)-4-prop-1-en-2-ylcyclohexene-1-carbaldehyde**	**(CAS 2111-75-3)**	**0,1827 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 0,0540 %; Category 2: 0,0160 %; Category 3: 0,3200 %; Category 4: 0,3000 %; Category 5.A: 0,0760 %; Category 5.B: 0,0760 %; Category 5.C: 0,0760 %; Category 5.D: 0,0760 %; Category 6: 0,1800 %; Category 7.A: 0,6100 %; Category 7.B: 0,6100 %; Category 8: 0,0320 %; Category 9: 0,5900 %; Category 10.A: 2,1000 %; Category 10.B: 2,1000 %; Category 11.A: 1,2000 %; Category 11.B: 1,2000 %;)

C00711	**Hydroxypropyloxypropanol**	**(CAS 25265-71-8)**	**0,1309 %**

Categories (Category name: limit): (Category 1: Not allowed;Category 6: Not allowed;)

C00299	**Bisabolol**	**(CAS 515-69-5)**	**0,0731 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 0,4200 %; Category 2: 0,1300 %; Category 3: 2,5000 %; Category 4: 2,4000 %; Category 5.A: 0,6000 %; Category 5.B: 0,6000 %; Category 5.C: 0,6000 %; Category 5.D: 0,2000 %; Category 6: 1,4000 %; Category 7.A: 3,0000 %; Category 7.B: 3,0000 %; Category 8: 0,2000 %; Category 9: 4,6000 %; Category 10.A: 4,6000 %; Category 10.B: 17,0000 %; Category 11.A: 0,2000 %; Category 11.B: 0,2000 %;)

C00936	**1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c] pyran; galaxolide; (HHCB)**	**(CAS 1222-05-5)**	**0,0400 %**

Categories (Category name: limit): (Category 1: Not allowed;Category 6: Not allowed;)

C01118	**l-carvone; (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one**	**(CAS 6485-40-1)**	**0,0365 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 0,2000 %; Category 2: 0,0600 %; Category 3: 0,0200 %; Category 4: 0,5900 %; Category 5.A: 0,2000 %; Category 5.B: 0,0390 %; Category 5.C: 0,0590 %; Category 5.D: 0,0130 %; Category 6: 0,6600 %; Category 7.A: 0,0390 %; Category 7.B: 0,0390 %; Category 8: 0,0130 %; Category 9: 0,1800 %; Category 10.A: 0,1800 %; Category 10.B: 0,4300 %; Category 11.A: 0,0130 %; Category 11.B: 0,0130 %;)

ALL_COSM014	**Geraniol**	**(CAS 106-24-1)**	**0,0321 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 0,8500 %; Category 2: 0,2500 %; Category 3: 5,1000 %; Category 4: 4,7000 %; Category 5.A: 1,2000 %; Category 5.B: 1,2000 %; Category 5.C: 1,2000 %; Category 5.D: 1,2000 %; Category 6: 2,8000 %; Category 7.A: 9,6000 %; Category 7.B: 9,6000 %; Category 8: 0,5000 %; Category 9: 9,2000 %; Category 10.A: 33,0000 %; Category 10.B: 33,0000 %; Category 11.A: 18,0000 %; Category 11.B: 18,0000 %;)

C01154	**[1S-(1a,3aß,4a,8aß)]-decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene**	**(CAS 475-20-7)**	**0,0269 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 0,2700 %; Category 2: 0,0800 %; Category 3: 1,6000 %; Category 4: 1,5000 %; Category 5.A: 0,3800 %; Category 5.B: 0,3800 %; Category 5.C: 0,3800 %; Category 5.D: 0,3800 %; Category 6: 0,8800 %; Category 7.A: 3,1000 %; Category 7.B: 3,1000 %; Category 8: 0,1600 %; Category 9: 2,9000 %; Category 10.A: 11,0000 %; Category 10.B: 11,0000 %; Category 11.A: 5,8000 %; Category 11.B: 5,8000 %;)

C20140	**5,5,6-Trimethylbicyclohept-2-yl cyclohexanol**	**(CAS 66068-84-6)**	**0,0200 %**

Categories (Category name: limit): (Category 1: Not allowed;Category 6: Not allowed;)

C20015	**4-methoxy-7H-furo[3,2-g][1]benzopyran-7-one**	**(CAS 484-20-8)**	**0,0064 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 0,0015 %; Category 2: 0,0015 %; Category 3: 0,0015 %; Category 4: 0,0015 %; Category 5.A: 0,0015 %; Category 5.B: 0,0015 %; Category 5.C: 0,0015 %; Category 5.D: 0,0015 %; Category 6: 0,0015 %; Category 7.B: 0,0015 %; Category 8: 0,0015 %; Category 10.B: 0,0015 %; Category 11.B: 0,0015 %;)

C20016 **Furocoumarins and other phototoxic substances** **(CAS)** **0,0064 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 0,0015 %; Category 2: 0,0015 %; Category 3: 0,0015 %; Category 4: 0,0015 %; Category 5.A: 0,0015 %; Category 5.B: 0,0015 %; Category 5.C: 0,0015 %; Category 5.D: 0,0015 %; Category 6: 0,0015 %; Category 7.B: 0,0015 %; Category 8: 0,0015 %; Category 10.B: 0,0015 %; Category 11.B: 0,0015 %;)

C01480 **Reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one** **(CAS 54464-57-2)** **0,0013 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: Not allowed;Category 6: Not allowed; Category 2: 1,1000 %; Category 3: 0,4100 %; Category 4: 20,0000 %; Category 5.A: 5,1000 %; Category 5.B: 0,5600 %; Category 5.C: 0,7600 %; Category 5.D: 0,1900 %; Category 7.A: 0,6700 %; Category 7.B: 0,6700 %; Category 8: 0,1900 %; Category 9: 2,4000 %; Category 10.A: 2,4000 %; Category 10.B: 6,6000 %; Category 11.A: 0,1900 %; Category 11.B: 0,1900 %;)

ALL_COSM004 **Benzyl alcohol** **(CAS 100-51-6)** **0,0010 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 0,4500 %; Category 2: 0,1400 %; Category 3: 0,3400 %; Category 4: 2,5000 %; Category 5.A: 0,6400 %; Category 5.B: 0,1700 %; Category 5.C: 0,3400 %; Category 5.D: 0,0570 %; Category 6: 1,5000 %; Category 7.A: 0,6800 %; Category 7.B: 0,6800 %; Category 8: 0,0570 %; Category 9: 2,2000 %; Category 10.A: 2,2000 %; Category 10.B: 8,5000 %; Category 11.A: 0,0570 %; Category 11.B: 0,0570 %;)

C00253 **Benzaldehyde** **(CAS 100-52-7)** **0,0008 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 0,0450 %; Category 2: 0,0140 %; Category 3: 0,2700 %; Category 4: 0,2500 %; Category 5.A: 0,0640 %; Category 5.B: 0,0640 %; Category 5.C: 0,0640 %; Category 5.D: 0,0210 %; Category 6: 0,1500 %; Category 7.A: 0,5200 %; Category 7.B: 0,5200 %; Category 8: 0,0210 %; Category 9: 0,4900 %; Category 10.A: 0,4900 %; Category 10.B: 1,8000 %; Category 11.A: 0,0210 %; Category 11.B: 0,0210 %;)

C20111 **Dibenzyl ether** **(CAS 103-50-4)** **0,0005 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 0,400 ppm; Category 2: 0,0028 %; Category 3: 0,0002 %; Category 4: 0,0120 %; Category 5.A: 0,0023 %; Category 5.B: 0,0002 %; Category 5.C: 0,0003 %; Category 5.D: 0,810 ppm; Category 6: 0,0023 %; Category 7.A: 0,0009 %; Category 7.B: 0,0009 %; Category 8: 0,810 ppm; Category 9: 0,0037 %; Category 10.A: 0,0037 %; Category 10.B: 0,0037 %; Category 11.A: 0,810 ppm; Category 11.B: 0,810 ppm; Category 12: 0,2400 %;)

C11618 **Vetiveria Zizanioides Root Extract Acetylated** **(CAS 84082-84-8)** **0,0001 %**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 0,0500 %; Category 2: 0,0500 %; Category 3: 0,0500 %; Category 4: 0,9000 %; Category 5.A: 0,1000 %; Category 5.B: 0,1000 %; Category 5.C: 0,1000 %; Category 5.D: 0,0330 %; Category 6: 0,0980 %; Category 7.A: 0,1000 %; Category 7.B: 0,1000 %; Category 8: 0,0330 %; Category 9: 0,2000 %; Category 10.A: 0,2000 %; Category 10.B: 3,8000 %; Category 11.A: 0,0330 %; Category 11.B: 0,0330 %;)

ALL_COSM005

	Benzyl benzoate	**(CAS 120-51-4)**	**0,200 ppm**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 1,7000 %; Category 2: 1,4000 %; Category 3: 0,4100 %; Category 4: 4,8000 %; Category 5.A: 4,3000 %; Category 5.B: 0,2100 %; Category 5.C: 0,8300 %; Category 5.D: 0,0700 %; Category 6: 0,4100 %; Category 7.A: 0,4100 %; Category 7.B: 0,4100 %; Category 8: 0,0700 %; Category 9: 1,9000 %; Category 10.A: 1,9000 %; Category 10.B: 12,0000 %; Category 11.A: 0,0700 %; Category 11.B: 0,0700 %;)

C00414	**(3R-(3a,3ab,7b,8aa))-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene**	**(CAS 469-61-4)**	**0,090 ppm**

Recommendation from IFRA Standard: Restriction.

Categories (Category name: limit): (Category 1: 0,2700 %; Category 2: 0,0800 %; Category 3: 1,6000 %; Category 4: 1,5000 %; Category 5.A: 0,3800 %; Category 5.B: 0,3800 %; Category 5.C: 0,3800 %; Category 5.D: 0,3800 %; Category 6: 0,8800 %; Category 7.A: 3,1000 %; Category 7.B: 3,1000 %; Category 8: 0,1600 %; Category 9: 2,9000 %; Category 10.A: 11,0000 %; Category 10.B: 11,0000 %; Category 11.A: 5,8000 %; Category 11.B: 5,8000 %;)

C01768	**Toluene**	**(CAS 108-88-3)**	**0,080 ppm**

Recommendation from IFRA Standard: Prohibition Specification.

Prohibition note: The level of Toluene has to be kept as low as practicable and should never exceed 100 ppm in the fragrance compound/mixture or fragrance oil.

Categories (Category name: limit): (All applications: 0,0100 %;)

4. GROUP OF SUBSTANCES

Intrinsic properties

Dermal sensitization

Total Conc: 80,6902 %

ALL_COSM011	Limonene	75,1526 %
ALL_COSM008	Citral	2,3476 %
ALL_COSM021	Linalool	2,2692 %
ALL_COSM009	Citronellol	0,5658 %
C01525	Perillaldehyde	0,1827 %
C00299	Bisabolol	0,0731 %
C01118	L-Carvone	0,0365 %
ALL_COSM014	Geraniol	0,0321 %
C01154	Longifolene	0,0269 %
C01480	Tetramethyl acetyloctahydronaphtalene	0,0013 %
ALL_COSM004	Benzyl alcohol	0,0010 %
C00253	Benzaldehyde	0,0008 %
C20111	Dibenzyl ether	0,0005 %
C11618	Vetiveria Zizanioides Root Extract Acetylated	0,0001 %
ALL_COSM005	Benzyl benzoate	0,200 ppm
C00414	Alpha-cedrene	0,090 ppm

Liver toxicity

Total Conc: 0,080 ppm

C01768	Toluene	0,080 ppm

Phototoxicity

Total Conc: 3,0129 %

C01132	Lime oil expressed	3,0000 %
C20016	Furocoumarins and other phototoxic substances	0,0064 %
C20015	Bergaptene, 5-Methoxypsoralen	0,0064 %

Systemic toxicity

Total Conc: 2,4610 %

ALL_COSM008	Citral	2,3476 %
C00299	Bisabolol	0,0731 %
C01118	L-Carvone	0,0365 %
C01480	Tetramethyl acetyloctahydronaphtalene	0,0013 %
ALL_COSM004	Benzyl alcohol	0,0010 %
C00253	Benzaldehyde	0,0008 %
C20111	Dibenzyl ether	0,0005 %
C11618	Vetiveria Zizanioides Root Extract Acetylated	0,0001 %
ALL_COSM005	Benzyl benzoate	0,200 ppm

Polycyclic musks

Total Conc: 0,0400 %

C00936	Hexamethylindanopyran	0,0400 %

Terpenoids

Total Conc: 0,2620 %

C00821	Eucalyptol	0,2620 %

Disclaimer: This Certificate provides restrictions for use of the specified product based only on those materials restricted by IFRA Standards for the toxicity endpoint(s) described in each Standard. This Certificate does not provide certification of a comprehensive safety assessment of all product constituents.

IFRA standard categories by product type

IFRA category	Product type
Category 1	Products applied to the lips.
Category 2	Products applied to the axillae.
Category 3	Products applied to the face/body using finger tips.
Category 4	Products related to fine fragrance.
Category 5.A	Body lotion products applied to the face/body using hands (palms), primarily leave-on.
Category 5.B	Face moisturizer products applied to the face/body using hands (palms), primarily leave-on.
Category 5.C	Hand cream products applied to the face/body using hands (palms), primarily leave-on.
Category 5.D	Baby creams, baby oils and baby talcs.
Category 6	Products with oral and lip exposure.
Category 7.A	Rinse-off hair permanent or other hair chemical treatments (e.g. relaxers), excluding hair dyes.
Category 7.B	Products applied to the hair with some hand contact (including hair dyes and excluding other rinse off).
Category 8	Products with significant ano-genital exposure.
Category 9	Products with body and hand exposure, primarily rinse off.
Category 10.A	Household care products excluding aerosols.
Category 10.B	Household aerosol/spray products.
Category 11.A	Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate - phototoxicity is unapplicable.
Category 11.B	Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate - phototoxicity is applicable.
Category 12	Products not intended for skin contact, minimal or insignificant transfer to skin.

Signature
(if generated electronically, no signature)

Date
15/9/2021