



## ANALYSIS CERTIFICATE

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**PRODUCT:** TERPINEOL ALPHA  
**BATCH NUMBER:** 4414114  
**BEST BEFORE DATE:** NOVEMBER 2022

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	RESULTS	SPECIFICATIONS	
		MIN	MAX
ASPECT	FREEZING LIQUID		
COLOR	COLORLESS		
ODOUR	WOODY, FLORAL		
DENSITY 20°C (g/cm <sup>3</sup> )	0,934	0,930	0,945
REFRACTIVE INDEX 20°C	1,4811	1,4800	1,4850
TERPINEOL ALPHA (%)	98,73	98,00	

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Quality Control Laboratory

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### OTHER INFORMATION

REACH: REACH EU does not apply according to Article 2, Regulation 1907/2006

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## FRAGRANCE ALLERGENS CERTIFICATE

Product: **TERPINEOL NATURAL**  
CAS: 98-55-5

Substances, listed in ANNEX III of the REGULATION (EC) No 1223/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 30 November 2009 on cosmetic products, having a significantly concentration and that have been identified by the SCCS (Scientific Committee for Consumer Safety) as likely to cause allergic reactions and whose presence must be indicated in the list of ingredients referred to in Article 19(1)(g) when their concentrations exceed the values, depending on the type of cosmetic product, defined in that annex:

CAS	Substance	% Total
127-51-5	Alpha-isomethylionone (gamma-Methylionone)	<0,001
122-40-7	Amyl cinnamal	<0,001
101-85-9	Amylcinnamyl alcohol	<0,001
105-13-5	Anise alcohol	<0,001
100-51-6	Benzyl alcohol	<0,001
120-51-4	Benzyl benzoate	<0,001
103-41-3	Benzyl cinnamate	<0,001
118-58-1	Benzyl salicylate	<0,001
80-54-6	Butylphenyl methylpropional (BMHCA; Lilial)	<0,001
104-55-2	Cinnamal	<0,001
104-54-1	Cinnamyl alcohol	<0,001
5392-40-5	Citral	<0,001
106-22-9	Citronellol	<0,001
91-64-5	Coumarin	<0,001
97-53-0	Eugenol	<0,001
90028-67-4	Evernia furfuracea (Treemoss) extract	<0,001
90028-68-5	Evernia prunastri (Oakmoss) extract	<0,001
4602-84-0	Farnesol	<0,001
106-24-1	Geraniol	<0,001
101-86-0	Hexyl cinnamal	<0,001
107-75-5	Hydroxycitronellal	<0,001
31906-04-4	Hydroxyisohexyl 3-cyclohexene carboxaldehyde (HICC; Lyrall)	<0,001
97-54-1	Isoeugenol	<0,001
5989-27-5	D-Limonene	<0,001
78-70-6	Linalool	<0,001
111-12-6	Methyl 2-octynoate (Methyl heptine carbonate)	<0,001

The information provided in this document is based within the present knowledge of the supplier. The declaration of ingredients / substances is in accordance with impurities higher than 0,01%, and do not replace analytical determinations in the material (as it could have traces of impurities not intentionally added). This document has been issued by our computer system and has, therefore, not been signed.



## FOOD ALLERGENS STATEMENT

Product: **TERPINEOL NATURAL**

CAS: 98-55-5

We hereby confirm the above mentioned product does not contain any of the following materials according Annex II to Regulation (EU) 1169/2011 of 25th October 2011 of the European Parliament regarding certain food ingredients (including a possible crossed contamination) :

- Gluten containing cereals and products thereof
- Crustaceans and products thereof
- Egg and egg containing products
- Fish and fish containing products
- Peanuts and peanut products
- Soybeans and soybean products
- Milk and milk products (including lactose)
- Tree nuts and products thereof
- Celery and celery products
- Mustard and products thereof
- Sesame and sesame products
- Sulfites and SO<sub>2</sub> at concentration of more than 10 mg/kg or 10 mg/l (as SO<sub>2</sub>)
- Lupin and products thereof
- Molluscs and products thereof

22/02/2019

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## IFRA STANDARDS CONFORMITY CERTIFICATE

Product: **TERPINEOL NATURAL**  
CAS: 98-55-5

We certify that the above product has been assessed according to the most recent (49th draft) Amendment of the IFRA Code of Practice, and the concentration levels listed below are the maximum dosage allowed in each IFRA class:

IFRA Category	Max. level of use %*	<i>*Results provided correspond to calculated concentrations (% weight/weight) based on IFRA recommendations.</i>
1	No Restriction	
2	No Restriction	
3	No Restriction	
4	No Restriction	
5A	No Restriction	
5B	No Restriction	
5C	No Restriction	
5D	No Restriction	
6	No Restriction	
7	No Restriction	
8	No Restriction	
9	No Restriction	
10A	No Restriction	
10B	No Restriction	
11	No Restriction	
12	No Restriction	

Ingredients and substances subject to restrictions are:

CAS	Ingredient name	Concentration (%)
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IFRA Cat.	Finished Product Type (QRA)
1	Lip products of all types (solid and liquid lipsticks, balms, clear or colored, etc.)   Children's toys
2	Deodorant and antiperspirant products of all types including any product with intended or reasonably foreseeable use on the axillae or labelled as such (spray, stick, roll-on, under-arm, deo-cologne and body spray, etc.)
3	Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care   Facial make up and foundation   Make-up remover for face, eyes and lips   Nose pore strips   Wipes or refreshing tissues for face, neck, hands, body. Body paint (for children and adults)   Facial masks for face, lips and around the eyes.
4	Fine fragrance of all types (eau de toilette, parfum, cologne, solid perfume, fragrancing cream, etc.)   Fragranced bracelets   Perfume kit fragrance ingredients/mixtures   Scent pads, foil packs   Scent strips for hydroalcoholic products
5.A	Body creams, oils, lotions of all types   Foot care products (creams & powders)   Insect repellent (intended to be applied to the skin)   All powders and talcs (excluding baby powders and talcs)
5.B	Face toner   Moisturizer for face, eyes and lips
5.C	Hand cream   Nail care products including cuticle creams, etc.   Hand sanitizers
5.D	Baby cream/lotion, baby oil, baby powders and talcs
6	Toothpaste   Mouthwash, including breath sprays
7	Hair sprays of all types (pumps, aerosol sprays, etc.)   Hair styling aids (mousse, gels, leave in conditioners)   Leave-on hair permanent or other hair chemical treatments (e.g. relaxers), including hair dyes   Dry shampoo or waterless shampoo   Hair deodorizer   Rinse-off hair permanent or other hair chemical treatments (e.g. relaxers), excluding hair dyes
8	Intimate wipes   Tampons   Baby wipes   Toilet paper (wet)
9	Bar soap   Shampoo of all type   Cleanser for face, eyes and lips   Conditioner (rinse-off)   Liquid soap   Body washes and shower gels of all types   Baby wash, bath, shampoo   Bath gels, foams, mousses, salts, oils and other products added to bathwater   Foot care products (feet are placed in a bath for soaking)   Shaving creams of all types (stick, gels, foams, etc.)   All depilatories (including facial) and waxes for mechanical hair removal   Shampoos for pets
10.A	Hand wash laundry detergent   Laundry pre-treatment of all types (e.g. paste, sprays, sticks)   Hand dishwashing detergent   Hard surface cleaners of all types (bathroom and kitchen cleansers, furniture polish, etc.)   Machine laundry detergents with skin contact (e.g. liquids, powders)   Dry cleaning kits   Toilet seat wipes   Fabric softeners of all types including fabric softener sheets   Household cleaning products, other types including fabric cleaners, soft surface cleaners, carpet cleaners, furniture polishes sprays and wipes, leather cleaning wipes, stain removers, fabric enhancing sprays, treatment products for textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics)   Floor wax   Fragranced oil for lamp ring, red diffusers, pot-pourri, etc.   Odored distilled water (that can be added to steam irons)
10.B	Sprays (of all types) applied to animals   Air freshener sprays, including aerosol and pump   Aerosol/spray insecticides
11	Feminine hygiene conventional pads, liners, interlabial pads   Diapers (baby and adult)   Adult incontinence pant, pad   Toilet paper (dry)   Tights with moisturizers   Scented socks, gloves   Facial tissues (dry tissues)   Napkins   Paper towels   Wheat bags   Facial masks (paper/protective) e.g. surgical masks not used as medical device   Solid fertilizers
12	Candles of all types (including encased)   Machine laundry detergents with minimal skin contact (e.g. liquid tabs, pods)   Air fresheners and fragrancing of all types (concentrated aerosol with metered doses (range 0.05-0.5mL/spray), plug-ins, closed systems, solid substrate, membrane delivery, electrical, powders, fragrancing sachets, incense, liquid refills, air freshening crystals)   Air delivery systems   Cat litter   Cell phone cases   Deodorizers/maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders)   Fuels   Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosols/sprays   Joss sticks or incense sticks   Machine dishwash detergent and deodorizers   Paints   Plastic articles (excluding toys)   Scratch and sniff   Scent pack   Scent delivery system (using dry air technology)   Shoe polishes   Toilet blocks

**SAFETY DATA SHEET**  
**(according to Regulation (EU) No. 1907/2006)**  
**PRODUCT: TERPINEOL ALPHA 98% NAT FG**  
**25**

Revision date: 03/09/2018

Date of issue: 02-01-2020

Version: 8

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier :** TERPINEOL ALPHA 98% NAT FG 25

**Chemical name:** P-menth-1-en-8-ol

**CAS:** 98-55-5

**EC Number:** 701-188-3

**Index No.:**

**Registration number (REACH):** <1T/Y

**1.2 Relevant identified uses of the substance or mixture:** Industrial uses. Formulation [mixing] of preparations.

**Uses advised against:** Other uses than those recommended.

**Exposure scenarios available by Einecs, if applicable, in reach.lluche.com**

**1.3 Details of the supplier of the safety data sheet:**

Madar Corporation Limited  
19 - 20 Sandleheath Industrial Estate  
Fordingbridge  
SP6 1PA  
Phone Number. +(0)1425 655 555  
technical@madarcorporation.co.uk

**1.4 Emergency telephone number:** +34 (0) 93 379 38 49.

**Timetable:** Monday to Thursday: 8.00h to 17.15h, Friday: 8.00h to 15.00h (winter).  
Monday to Friday: 8.00h to 15.00h (summer).

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification in accordance with Regulation (EC) No 1272/2008**

Skin corrosion/irritation, Hazard Category 2; H315

Serious eye damage/eye irritation, Hazard Category 2; H319.

**2.2 Label elements**

EC Number: 701-188-3

P-menth-1-en-8-ol

## SAFETY DATA SHEET (according to Regulation (EU) No. 1907/2006) PRODUCT: TERPINEOL ALPHA 98% NAT FG 25

Revision date: 03/09/2018

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Version: 8



Signal word: Warning

#### Hazard Statements:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

#### Precautionary Statements:

P280: Wear protective gloves/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

### 2.3 Other hazards

Not available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Concentration range of the constituent (% weight/weight)	EC number / Registration number	CAS	Chemical name
≥50% and ≤100	701-188-3	98-55-5	P-menth-1-en-8-ol

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Consumption: If swallowed, rinse mouth with water.



## SAFETY DATA SHEET

(according to Regulation (EU) No. 1907/2006)

### PRODUCT: TERPINEOL ALPHA 98% NAT FG 25

Revision date: 03/09/2018

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	Seek medical advice immediately and show this container or label.
	Keep the person at rest. Do NOT induce vomiting.
Eye contact:	Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water and seek medical advice.
Inhalation:	Remove person to fresh air and keep at rest.
Skin contact:	Remove contaminated clothing. Wash skin with mild soap and water, rinse abundantly. If symptoms persist, obtain medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed:

Irritating to skin or mucous membranes (inflammation). If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

Causes serious eye irritation.

Read label before use. No additional information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Not available.

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media:

Carbon dioxide, dry chemical powder or appropriate foam.

For safety reasons do not use full water jet.

#### 5.2 Special hazards arising from the substance or mixture: Not applicable.

#### 5.3 Advice for firefighters:

In case of fire in the surrounding area, follow the recommendations below:

1-Closed containers may build up pressure at elevated temperatures.

2-Avoid inhalation of fumes or vapours. Use appropriate respiratory protection.

3-Prevent run-off from fire fighting to enter drains or water courses.

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Wear appropriate gloves to prevent skin exposure.

Avoid breathing vapours. Use a suitable respiratory apparatus if necessary. Avoid contact with eyes and skin.





**SAFETY DATA SHEET**  
**(according to Regulation (EU) No. 1907/2006)**  
**PRODUCT: TERPINEOL ALPHA 98% NAT FG**  
**25**

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Maintain adequate ventilation in the working area after spilling.

**6.2 Environmental precautions:**

Avoid contaminating the environment via the sewers or water sources.

**6.3 Methods and material for containment and cleaning up:**

Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash).

Ventilate area and wash spill site after material pickup is complete.

Dispose of in accordance with current laws and regulations.

**6.4 Reference to other sections:**

See also sections 8 and 13.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling:**

Keep away from food, drink and animal feedingstuffs. Do not smoke.

Avoid contact with skin and eyes.

Handle in accordance with good industrial hygiene and safety practice.

**7.2 Conditions for safe storage, including any incompatibilities:**

Keep the product in its original container well sealed, in a dry and ventilated area, away from potential sources of ignition and protected from light. Store in accordance with local/national regulations and follow the warnings on the label.

Keep away from incompatible substances (see section 10).

**7.3 Specific end use(s):**

Not available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

Declaration of substances is not required.

**8.2 Exposure controls**

Personal protection equipment: Appropriate personal protective equipment shall be worn in accordance with Regulation (EU) 2016/425.

Engineering Controls-Ventilation: The areas where the product is handled and stored should be adequately ventilated.

Respiratory Protection: Use personal breathing apparatus whenever deemed necessary.



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Skin Protection:	Avoid contact with skin. Compatible chemical-resistant gloves are recommended.  Rinse and remove gloves immediately after use. Wash hands with soap and water thoroughly after handling.
Eye/Face protection:	Chemical safety goggles are recommended. Wash contaminated goggles before reuse.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Appearance:	FREEZING LIQUID
Colour:	COLORLESS
Odour:	WOODY, FLORAL
Density:	0.930 - 0.936 g/cm <sup>3</sup> (20 °C)
Refractive Index:	1.481 - 1.485 (20 °C)
Flash point:	89 °C
Additional information:	Not applicable.

**9.2 Other information**

Additional information:	Not applicable.
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**SECTION 10: Stability and reactivity**

**10.1 Reactivity:** Not available.

**10.2 Chemical stability:** Stable under normal operating conditions.

**10.3 Possibility of hazardous reactions:**

Hazardous Polymerization: It does not undergo any dangerous reactions under normal conditions.

**10.4 Conditions to avoid:** Heat, flames and other sources of ignition.

No special precautions other than good housekeeping of chemicals.

**10.5 Incompatible materials:** Oxidizing mineral acids, strong reducing agents, strong oxidizing agents.

**10.6 Hazardous decomposition products:** Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

**SAFETY DATA SHEET**  
**(according to Regulation (EU) No. 1907/2006)**  


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**PRODUCT: TERPINEOL ALPHA 98% NAT FG**  
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Revision date: 03/09/2018

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Version: 8

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

See also sections 2 and 3.

Acute toxicity:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
Skin corrosion/irritation:	This substance meets the criteria for classification in accordance with Regulation (EC) No 1272/2008.
Serious eye damage/irritation:	This substance meets the criteria for classification in accordance with Regulation (EC) No 1272/2008.
Respiratory or skin sensitisation:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
Germ cell mutagenicity:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
Carcinogenicity:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
Reproductive toxicity:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
STOT-single exposure:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
STOT-repeated exposure:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
Aspiration toxicity:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

**SECTION 12: Ecological information**

**12.1 Acute aquatic toxicity:** Not determined

**12.2 Persistence and degradability:** Not available.

**12.3 Bioaccumulative potential:** Not determined

**12.4 Mobility in soil:** Not available.

**12.5 Results of PBT and vPvB assessment:** Not determined



**SAFETY DATA SHEET**  
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**12.6 Other adverse effects:** Not available.

Do not allow the material to enter streams, sewers or other waterways.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Container disposal:	Containers must be disposed of as hazardous waste. Do not reuse empty containers. Dilute the remaining material and neutralise. Empty residue into a suitable disposal site.
Disposal conditions:	Dispose of in accordance with all state and local environmental regulations. This material and its container must be disposed of in a safe way.

**SECTION 14: Transport information**

**International Carriage of Dangerous Goods by Road (ADR)**

UN No.:	N/A
Proper Shipping Name:	Not subject to ADR.
Packing Group:	-
Class:	-
Tunnel restriction code:	-
Label:	-

**Sea Transport (IMDG)**

UN No.:	N/A
Proper Shipping Name:	Not restricted.
Packing Group:	-
Class:	-
Subsidiary risk:	-
Marine Pollutant:	No
Label:	

**Air Transport (ICAO/IATA)**

UN No.:	N/A
Proper Shipping Name:	Not restricted.
Packing Group:	-
Class:	-
Subsidiary risk:	-
Label:	



**SAFETY DATA SHEET**  
**(according to Regulation (EU) No. 1907/2006)**  

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**PRODUCT: TERPINEOL ALPHA 98% NAT FG**  
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**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Not available

**15.2 Chemical safety assessment:**

Not available.

**SECTION 16: Other information**

This material should only be used for industrial purposes.

Key literature references and sources for data:

1. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
2. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
3. Occupational Exposure Limits by the INSHT (Spanish National Institute of Safety and Hygiene at Work).

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and our company assumes no liability resulting from the use of this SDS. This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment and must determine suitability of this information for his application.

Reason for Change: Adjustment to Regulation (EU) 2015/830.

## TECHNICAL DATA SHEET

**DATE:** 02.01.2020  
**PRODUCT:** TERPINEOL ALPHA 98% NAT FG 25

**CAS-EINECS** 98-55-5  
**CAS N°** 98-55-5  
**CHEMICAL IDENTIFICATION** P-menth-1-en-8-ol  
**FEMA** 3045  
**INDEX NUM. / INVENTORY NUM.** -  
**EINECS / ELINCS** 701-188-3(202-680-6)  
**FLASH POINT** 89  
**BOILING POINT** -  
**MELTING POINT (°C)** 31°C  
**FORMULA** C10 H18 O  
**M.W.** -

### ORGANOLEPTIC PROPERTIES

**ASPECT** FREEZING LIQUID  
**COLOR** COLORLESS  
**ODOUR** WOODY, FLORAL

### CHEMICAL AND PHYSICAL PROPERTIES

	<b>MIN</b>	<b>MAX</b>
<b>DENSITY 20°C</b>	0,930	0,936
<b>REFRACTIVE INDEX 20°C</b>	1,4810	1,4850
<b>TERPINEOL ALPHA (%)</b>	98,00	

STORAGE CONDITIONS: It is recommended to store away from direct light in full sealed containers in a dry and well ventilated area.



## VEGAN DECLARATION

Product: **TERPINEOL NATURAL**

CAS: 98-55-5

We hereby confirm the above mentioned product is suitable for vegan consumption.

(It is the responsibility of the user to assure that the food legislative application of the flavor in the specific food is covered by the applied laws and regulations in the versions valid at the time of delivery.)

02/01/2020

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