Fragrance Product Information Sheet (FPIS)

JOHN D. WALSH COMPANY, INC.
USA

1. Product Identification

Substance Name: Ethanone, 1-(1,2,3,5,6,7,8,8a-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)-
CAS Number: 54464-57-2, 68155-66-8, 68155-67-9
INCI Name
Tetramethyl Acetyloctahydronaphthalenes
Tocopherol

This product is manufactured as a fragrance ingredient for use in manufacturing fragrance products. Any warranties or representations, express or implied, regarding the suitability of the product for any other purpose is hereby disclaimed.

2. Safety aspects for handling, storage and transportation

Customs Tariff Number: 2914295000
Vapor Pressure (mmHg @ 20°C): <0.01
Switzerland Volatile Organic Compounds (VOC) %: <3

Please refer to SDS for additional information related to safe use.
Please refer to PDS for additional information related to product specifications.

3. Feedstock Origin

The product is obtained from:

Source	Yes/No
Botanical*	No
Animal**	No
Other***	Yes

*Included herein are essential oils and extracts without any chemical modification and other aromatic natural raw materials as defined in ISO 9235 derived from botanical source.
**Included herein are:
- ingredients extracted from living or slaughtered animals from the entire animal kingdom (vertebrates and multicellular invertebrate organisms)
- ingredients harvested from animals (i.e. produced by the animal but not part of the animal itself) such as such as beeswax, honey, eggs, milk, etc.
- ingredients produced from harvested animal products such as shellac

***Included herein are ingredients not covered in the above two sources (including mineral, chemically modified plant derived ingredients, petroleum/fossil-based or other synthetic ingredients)

4. Natural status

The product has been reviewed for its compliance to the International Standard ISO 16128 Guidelines on technical definitions and criteria for natural and organic cosmetic ingredients and products:
Part 1: Definitions for ingredients
Part 2: Criteria for ingredients and products

Content Natural Ingredients(1)%*	Natural Index (NI) (1)	Content Natural Origin Ingredients (2) %*	Natural Origin Index (NOI) (2)

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0.00	0.00	66.56	0.67

*Values >99.99% are rounded up to 100%

(1) Natural Content
ISO 16128-1 defines Natural ingredients as ingredients obtained only from plants, animals, micro-organisms or minerals, including those obtained from these materials by physical processes (e.g. grinding, drying, distillation), fermentation reactions occurring in nature and leading to molecules which occur in nature, and other procedures of preparation including traditional ones. (ISO 16128-1:2016, Clause 2). Intentional chemical modification is not allowed.
Solvents for ingredient processing and manufacturing have been carefully reviewed & assessed by IFF experts. ISO 16128 promotes the use of renewable solvents that pose minimal safety or environmental risk. If renewable alternatives are not available, non-natural solvents that pose minimal safety or environmental risk can be used.
Due diligence by IFF experts has been applied to confirm the absence of renewable alternatives and to review potential risks for production plant workers and the environment for solvents used in the production of natural ingredients.
Hexane, cyclohexane have been approved for use as processing solvents.
The use of halogenated solvents has been excluded.
After use, process solvents should be completely removed or at least removed to such an extent that they are only contained in technologically unavoidable trace concentrations in the final ingredient.

The Natural Index is a value indicating to what extent an ingredient meets the definition of natural ingredients from ISO 16128-1:2016-2.
Natural Index = 1 Meets the definition of natural ingredients.
>0 Natural Index <1 Ingredient is a mixture of natural and non-natural ingredients.
Natural Index = 0 Does not meet the definition of natural ingredients.

(2) Natural Origin Content
ISO 16128-1 defines Derived Natural Ingredients as ingredients of greater than 50 % natural origin, by molecular weight, by renewable carbon content, obtained through defined chemical and/or biological processes with the intention of chemical modification.

In our assessment, IFF has considered the following processes as acceptable:
- The Positive list of reactions as presented in Table B.1 of ISO 16128-1
- Processes following green chemistry principles: Ingredients made using Eco Respectful & Low-Waste Processes.

The degree of natural origin is determined by renewable carbon content to the total molecular composition of that ingredient.

The Natural Origin Index is a value indicating to what extent an ingredient meets the definition of natural ingredients or natural origin ingredients.

Natural Origin Index = 1	Meets the definition of Natural ingredients.
0.5 <Natural Origin Index <= 1	Meets the definition of Derived Natural ingredients.
Natural Origin Index = 0	Neither meets the definition of Natural ingredients nor Derived Natural ingredients.

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5. Global Chemical inventory Status

Country	Regulatory Status	Yes / No	Remarks
Australia	All the components# of this product are listed on Australian Inventory of Industrial Chemicals (AIIC).	YES	
	Presence of substances## with specific information requirement specified in the Inventory listing.	NO	
Canada	All the components of this product are listed on Domestic Substances List (DSL).	YES	
	If not, all the components are either listed on DSL or Non-Domestic Substances List (NDSL).	-	
	Presence of components subject to annual import volume limits when imported into Canada.	NO	
China*	All the components of this product are listed on Inventory of Existing Chemical Substances (IECSC).	YES	
	If not, all the components are either listed on IECSC or registered by IFF.	-	
European Union	Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)	-	IFF will continue to comply with all relevant REACH requirements to assure that the substances and products you purchase from IFF in the EU will be REACH compliant. Please be aware that IFF as a vendor can only support REACH compliance for products purchased from us in the EU. Ingredients in products purchased by you from IFF outside the EU and which you export to the EU will need to be registered by the importer that is based in the EU. Where applicable and as required by law the REACH registration number, when available to us, will be communicated to you via the Safety Data Sheet.
Japan*	All the components of this product are listed on Existing and New Chemical Substances (ENCS) Inventory (Natural extracts/essential oils are exempted.)	YES	
	If not, all the components are either listed on ENCS or registered by IFF.	-	
	All the components of this product are listed on Industrial Safety and Health Law (ISHL) Inventory.	YES	
	If not, all the components are either listed on ISHL or registered by IFF.	-	
New Zealand**	All the components of this product are listed on New Zealand Inventory of Chemicals (NZIoC).	-	Listing on the Inventory of Chemicals does not apply to fragrance materials because they are covered under the appropriate group standard. Please contact IFF if Food Additives and Fragrance Materials Group Standard Classification is needed for your final determination.
Philippines*	All the components of this product are listed on Philippines Inventory of Chemicals and Chemical Substances (PICCS).	YES	
South-Korea **	All the components of this product are listed on Existing Chemicals List (ECL).	YES	Letter of Confirmation is available upon request.

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Country	Regulatory Status	Yes / No	Remarks
	If not, all the components are either listed on ECL or registered by IFF.	-	
Taiwan*	All the components of this product are listed on Taiwan Chemical Substance Inventory (TCSI).	YES	
Turkey	All the components of this product are listed on KKDIK 'Turkey REACH'.	-	Turkish KKDIK legislation requires an importer or manufacturer in Turkey to register ingredients imported at 1000Kg or more per year. Please contact IFF if you wish to import the IFF product in the applicable country.
United States	All the components of this product are listed on Toxic Substances Control Act (TSCA) Active List.	YES	
	If not, all the components are either listed on TSCA or granted by the EPA for Low Volume Exemption (LVE).	-	
	Presence of components with TSCA significant new use rules (SNURs).	NO	
	Presence of components with XU status (TSCA Exemption under Chemical Date Reporting Rule (flag XU)).	NO	

"component" is herein defined as an intentionally added substance which is in scope of the requirements of the respective chemical inventory legislation
"substance" herein refers to intentionally added substances and unintentional addition of substances introduced from natural sources and/or synthetic impurities.
* imported cosmetic finished products are exempt
** imported cosmetic finished products and intermediate products for cosmetic products including fragrances are exempt

6. Ingredients (Presence of ingredients not listed below is available upon request)

Solvents*
None

Antioxidants*

Ingredient Name	CAS Number	Intentional addition (%)	Unintentional addition (%)
Tocopherol Alpha	10191-41-0	0.150	-

Preservatives*
None

Colorants*
None

Emulsifiers*
None

Nitromusks*
None

Phthalates*
None

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Polycyclic Musks*
None

Macrocyclic Musks*
None

Salicylates*
None

Glycol Ethers*
None

Nitriles*
None

Substances of Very High Concern (SVHC) included in Candidate List for Authorisation of the EU REACH Regulation (EC) No 1907/2006*
None

California Prop 65 Ingredients*
None

Ingredients classified as Carcinogen, Mutagen or Reprotoxic; this includes official classifications by authorities as well as industry self-classifications*
None

Furocoumarins**
None

APPENDIX listed materials of CITES (Convention on International Trade in Endangered Species of Wild Fauna and Flora)*:
None

Other ingredients of regulatory interest*

Ingredient Name	CAS Number	Intentional addition (%)	Unintentional addition (%)
Camphor	76-22-2	-	-
Eucalyptol	470-82-6	-	-
Menthol	89-78-1	-	-
Diacetyl	431-03-8	-	-
Vanillin	121-33-5	-	-

*Review includes intentionally added substances with no cut off and unintentional addition of substances introduced from natural sources and/or synthetic impurities with a cut off of 10ppm.
**Review includes intentionally added substances with no cut off and unintentional addition of substances introduced from natural sources and/or synthetic impurities with a cut off of 1ppm.

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7. Compliance with Cosmetic Regulations

ANNEX listed ingredients of the EU Cosmetic Regulation (EC) N° 1223/2009*
None

APPENDIX listed ingredients of the Japanese Standards for Cosmetics (Ministry of Health and Welfare Notification No.331 of 2000)*
None

Canadian List of Prohibited and Restricted Cosmetic Ingredients (The Cosmetic Ingredient Hot List)*
None

*Review includes intentionally added substances and unintentional addition of substances introduced from natural sources and/or synthetic impurities with a cut off of 1ppm.

8. BSE

The product does not contain any ingredients from bovine, ovine or caprine source.
This product complies with Regulation (EC) No 1069/2009 and therefore is free from BSE/TSE (Bovine/Transmissible Spongiform Encephalopathy).

9. Genetically Modified Organisms (GMO)

The product does not contain any intentionally added ingredients* derived from Genetically Modified Organisms (GMO).

*10ppm cut off applied

10. Nanomaterials

The product does not contain any ingredient defined as a nanomaterial according to the Article 2 (1) (k) of European Cosmetic Regulation No 1223/2009, or according to any other commonly accepted regulatory definition.

11. Sustainability

Ingredient Category	Presence
Intentionally added Palm Oil/Palm oil derivatives*	No
Intentionally added Palm Kernel Oil/Palm kernel oil derivatives*	No

*0.1% cut off applied

IFF Palm Oil Policy and RSPO certification are available upon request.

Ingredient Category	Concentration (% or %w/w)
Renewable Carbon *	66.7

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* The %Renewable Carbon or %Bio-Based Carbon in a formula is the percentage carbon content from a bio-based source. Bio-based sources comprise of living organisms such as plants (including examples such as responsibly sourced pine derivatives). These bio-based ingredients are renewable since they can be replenished in a short time span.

Ingredient Category	Concentration (%w/w)
% Upcycled ingredients*	99.9

* An upcycled ingredient is one that contains >=50% of its carbon from a material that was a waste or side stream from a process either internal or external to IFF. A waste or side stream is defined as either:
• A material that would otherwise have had low economic value. For example: agricultural residue that would have been composted on the field.
• A material stream that was not the primary product produced in a process, based on lower relative economic value. For example: turpentine as a side-stream in the paper making process; exhausted rose petals as a side stream of the rose distillation process.
The upcycled ingredient(s) mentioned above may contain a low amount of non-Upcycled antioxidant that is required to fulfil its intended function.

Ingredient Category	Concentration (%w/w)
Readily Biodegradable (1)	0
Inherently Biodegradable (2)	0.2
Ultimately Biodegradable (3)	0
Not Biodegradable (4)	99.9
Inorganic (5)	0

Values are rounded to 1 decimal, values ≥99.95% are rounded up to 100%

The percentages reported in the above table are based on the criteria outlined below.

Where measured data are not available (yet) on the ingredient itself, measured data of a close structural analogue can be used to read-across from, conform the stringent criteria of the Read-Across Assessment Framework published by ECHA.

(1) The % Readily Biodegradable is calculated by totaling the % of the ingredients that meet the following criteria:
- Ingredients measured following OECD (301-series or 310) or equivalent guidelines for screening of chemicals for ready biodegradability, achieving at least 60% (ThOD or ThCO2) or 70% (DOC) biodegradation within 28 days. The 10-day window criterion is not taken into account to conclude if an ingredient is readily biodegradable (i.e., substances fulfilling the pass level criterion but failing the 10-day window criterion are considered readily biodegradable).

(2) The % Inherently Biodegradable is calculated by totaling the % of the ingredients that meet the following criteria:
- Ingredients measured following OECD (301-series or 310) or equivalent guidelines for screening of chemicals for ready biodegradability, with one of the following outcomes:
  - Pass level criterion for Readily biodegradable is almost fulfilled in the 28-day test period, i.e., ThOD (or ThCO2) reaching 58% or DOC removal reaching 68%.
  - Pass level of 60% (ThOD or ThCO2) or 70% (DOC) biodegradation is fulfilled when incubation is extended beyond 28 days but no more than 60 days.
- Ingredients measured following OECD (302-series) or equivalent guidelines, with biodegradation above 70% (measured as BOD, DOC removal or COD) in test duration of no more than 60 days.

(3) The % Ultimately Biodegradable is calculated by totaling the % of the ingredients that meet the following criteria:
- Ingredients measured following OECD (309-series) or equivalent biodegradation simulation studies achieving a mineralization half-life of <60 days.

(4) The % Not Biodegradable is calculated by totaling the % of the remaining organic ingredients that do not meet the criteria for readily, inherently or ultimately biodegradable.

(5) The % Inorganic is calculated by totaling the % of any inorganic ingredients present (including salts, metals, water, etc.).

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Natural Complex Substances (NCS), which have not been measured using an OECD or equivalent biodegradation screening test, are assessed according to the Guidelines on the Environmental Assessment of NCS published by EFEO/IFRA. They are broken down into their constituents, which are assessed to the greatest extent possible using the criteria described above. NCS may contain constituents that have not been chemically identified (yet), e.g., because they are only present at low levels or are technically difficult to analyze. When all known constituents of the NCS are readily biodegradable according to the criteria above, unidentified constituents are reported as readily biodegradable as well. If the NCS contains one or more constituents that are inherently biodegradable, the unidentified constituents are reported as inherently biodegradable. If the NCS contains one or more constituents that are ultimately biodegradable, the unidentified constituents are reported as ultimately biodegradable, which overrides inherently biodegradable. If the NCS contains >20% unidentified constituents, the unidentified fraction is reported as Not Biodegradable. For natural constituents without measured or read-across data available, modeling data from BIOWIN may be used as follows: classification as Readily Biodegradable based on modeled data from BIOWIN 5&6, with both probabilities >=0.5. Classification as Ultimately Biodegradable based on modeled data using BIOWIN 3 with a predicted half-life within less than 60 days (if the outcome is exactly 60 days this does not qualify).

Responsible Sourcing

At IFF, we seek to ensure ethical practices throughout our supply chain, while reducing impact to the environment and supporting workers and grower communities. We are continuously working to strengthen the transparency, traceability and diversity of our supply chain. Our commitment to Responsible Sourcing balances three focus areas:

- Engaging suppliers to support continuous ESG improvement
- Advancing our strategic raw material programs
- Accelerating our naturals strategy and community biodiversity programs

To learn more about our Responsible Sourcing efforts, please visit IFF's Do More Good (ESG+) Report. To learn more about our policies and commitments, please visit IFF's Policy Center.

12. IFRA Compliance

The IFF product indicated above does not contain any ingredient prohibited by the International Fragrance Association (IFRA) Code of Practice and Standards through the 51th Amendment. Any ingredient present which has an IFRA specification standard is used only if its quality meets the criteria established.
The IFF product indicated above contains the following substances for which a restriction standard has been issued by IFRA through the 51th Amendment:

Ingredient Name	CAS Number	Concentration (%)*
Otne (1-(1,2,3,4,5,6,7,8 Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl) Ethanone)	54464-57-2, 54464-59-4, 68155-66-8, 68155-67-9	99.850

*Concentrations shown include intentionally added substances and unintentional addition of substances introduced from natural sources and/or synthetic impurities with a cut off of 10 ppm. (Cut off does not apply to Benzene)

13. Compliance with internal safety assessment

The IFF product indicated above contains substance(s)* with internal safe use standards.**

*10ppm cut off applied

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**For many proprietary IFF fragrance ingredients that do not have an IFRA standard, IFF experts have derived internal safe use standards based on an evaluation of toxicological information for the ingredient following the guidelines established by the Research Institute for Fragrance Materials (RIFM) and the International Fragrance Association (IFRA).
QRA2 maximum use levels per application, based on IFRA 51 restrictions and internal safe use standards, are available upon request.

14. Fragrance Allergens

Ingredient Name	CAS Number	Total Quantity (% w/w)*
Acetyl Cedrene	32388-55-9	-
Amyl Salicylate	2050-08-0	-
Anethole	104-46-1/ 4180-23-8	-
Benzaldehyde	100-52-7	-
Camphor	76-22-2/ 21368-68-3/ 464-49-3/ 464-48-2	-
Beta-Caryophyllene	87-44-5	-
Carvone	99-49-0/ 6485-40-1/ 2244-16-8	-
Dimethyl Phenethyl Acetate	151-05-3	-
Hexadecanolactone	109-29-5	-
Hexamethylindanopyran	1222-05-5	-
Linalyl acetate	115-95-7	-
Menthol	89-78-1 / 1490-04-6 / 2216-51-5 / 15356-60-2	-
Methyl Salicylate	119-36-8	-
Trimethylcyclopentenyl Methylisopentenol	67801-20-1	-
Salicylaldehyde	90-02-8	-
Santalol	11031-45-1/115-71-9/ 77-42-9	-
Sclareol	515-03-7	-
Terpineol	8000-41-7/ 98-55-5/ 138-87-4/ 586-81-2	-
Tetramethyl acetyloctahydronaphthalenes	54464-57-2/ 54464-59-4/ 68155-66-8/ 68155-67-9	99.850
Trimethylbenzenepropanol	103694-68-4	-
Vanillin	121-33-5	-
Cananga Odorata Oil/ Extract	83863-30-3/ 8006-81-3/ 68606-83-7/ 93686-30-7	-
Cinnamomum Cassia Leaf Oil	8007-80-5/ 84961-46-6	-
Cinnamomum Zeylanicum Bark Oil	8015-91-6/ 84649-98-9	-
Citrus Aurantium Flower Oil	72968-50-4 / 8028-48-6/ 8016-38-4	-
Citrus Aurantium Peel Oil	68916-04-1/ 72968-50-4 / 97766-30-8/ 8028-48-6/ 8008-57-9	-
Citrus Aurantium Bergamia Peel Oil	8007-75-8/ 89957-91-5/ 68648-33-9/ 85049-52-1	-
Citrus Limon Peel Oil	84929-31-7/ 8008-56-8	-
Lemongrass Oil	8007-02-1/ 89998-16-3/ 91844-92-7	-
Eucalyptus Globulus Oil	97926-40-4/ 8000-48-4	-
Eugenia Caryophyllus Oil	8000-34-8 / 8015-97-2/ 84961-50-2	-
Jasmine Oil/ Extract	84776-64-7/ 90045-94-6/ 8022-96-6/ 8024-43-9	-
Juniperus Virginiana Oil	8000-27-9 / 85085-41-2	-

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Ingredient Name	CAS Number	Total Quantity (% w/w)*
Laurus Nobilis Leaf Oil	8002-41-3/ 8007-48-5/ 84603-73-6	-
Lavandula Oil/ Extract	91722-69-9/ 8022-15-9/ 93455-96-0/ 93455-97-1/ 92623-76-2/ 84776-65-8/ 8000-28-0/ 90063-37-9	-
Mentha Piperita Oil	8006-90-4/ 84082-70-2	-
Mentha Viridis Leaf Oil	8008-79-5/ 84696-51-5	-
Narcissus Extract	90064-26-9/ 68917-12-4/ 90064-27-0/ 90064-25-8	-
Pelargonium Graveolens Flower Oil	90082-51-2/ 8000-46-2	-
Pogostemon Cablin Oil	8014-09-3/ 84238-39-1	-
Rose Flower Oil/ Extract	8007-01-0/ 93334-48-6/ 84696-47-9/ 84604-12-6/ 90106-38-0/ 84604-13-7/ 92347-25-6	-
Santalum Album Oil	8006-87-9/ 84787-70-2	-
Eugenyl acetate	93-28-7	-
Geranyl acetate	105-87-3	-
Isoeugenyl acetate	93-29-8	-
Pinene	80-56-8/ 7785-70-8/ 127-91-3/ 18172-67-3	-
Benzyl alcohol	100-51-6	-
6-Methyl coumarin	92-48-8	-
Amyl cinnamal	122-40-7	-
Cinnamyl alcohol	104-54-1	-
Citral	5392-40-5/ 141-27-5/ 106-26-3	-
Eugenol	97-53-0	-
Hydroxycitronellal	107-75-5	-
Isoeugenol	97-54-1/ 5932-68-3/ 5912-86-7	-
Amylcinnamyl alcohol	101-85-9	-
Benzyl Salicylate	118-58-1	-
Cinnamal	104-55-2	-
Coumarin	91-64-5	-
Geraniol	106-24-1	-
Anise Alcohol	105-13-5	-
Benzyl Cinnamate	103-41-3	-
Farnesol	4602-84-0	-
Linalool	78-70-6	-
Benzyl Benzoate	120-51-4	-
Citronellol	106-22-9/ 26489-01-0/ 1117-61-9/ 7540-51-4	-
Hexyl Cinnamal	101-86-0	-
Limonene	138-86-3/ 5989-27-5/ 5989-54-8/ 7705-14-8	-
Methyl 2-octynoate	111-12-6	-
alpha-Isomethyl ionone	127-51-5	-
Evernia Prunastri Extract	90028-68-5	-
Evernia Furfuracea Extract	90028-67-4	-
Pinus Mugo	90082-72-7	-

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Ingredient Name	CAS Number	Total Quantity (% w/w)*
Pinus Pumila	97676-05-6	-
Cedrus Atlantica Oil/ Extract	92201-55-3/ 8023-85-6	-
Turpentine	9005-90-7/ 8006-64-2/ 8052-14-0	-
Alpha-Terpinene	99-86-5	-
Terpinolene	586-62-9	-
Myroxylon Pereirae Oil/ Extract	8007-00-9	-
Rose Ketones	43052-87-5/ 23726-94-5/ 24720-09-0/ 23696-85-7/ 57378-68-4/ 71048-82-3/ 23726-92-3/ 23726-91-2	-
3-Propylidenephthalide	17369-59-4	-
Lippia citriodora absolute	8024-12-2/ 85116-63-8	-

* Levels of materials present at 10 ppm or greater are reported; materials at levels less than 10 ppm or not present in the fragrance are shown as "-". The column with the total content includes intentional addition by IFF or its vendors, natural components and known impurities.

According to EU Cosmetic Regulation (EC) No 1223/2009 the fragrance allergens listed above shall be labeled on finished cosmetic products when present at levels of 10 ppm or higher in leave-on products or at 100 ppm or higher in rinse-off products (10ppm = 0.001%).

15. Halal Suitability

We confirm that the product conforms to the following requirements:

a. This product does not contain substances extracted from living or slaughtered animals from the entire animal kingdom (vertebrates and multicellular invertebrate organisms) as part of its formulation or in processing.
b. This product is obtained from:
For the source please refer to section 3 "Feedstock Origin" of this document.
c. This product contains no intentionally added ethanol.
d. This product does not contain ethanol sourced from alcoholic beverages (e.g. beers, wines and spirits).
e. The following IFF fragrance production facilities* are free from pork and/or porcine derived ingredients:

Benicarló, Spain
Chin Bee, Singapore
Garin, Argentina
Grasse, France
Haverhill, United Kingdom
Hazlet, NJ, USA
Huangpu, China
Jacksonville, FL, USA
Rio de Janeiro, Brazil
Sri City, India
Tilburg, The Netherlands
Tlalnepantla, Mexico
Xin'anjiang, Hangzhou, China

*Information on the production facility of the product supplied to you, can be provided by your sales representative upon request.

16. Kosher Suitability

The product does not contain any derivatives of animal origin or materials derived from milk, cheese, wheat, grain, etc. or

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alcohol from these sources.

17. Animal Testing

IFF does not test fragrance or flavor compounds/mixtures on animals.
Studies on fragrance ingredients may have been performed on animals to 1) satisfy regulatory requirements related to the inclusion into Chemical Inventories such as the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC), the Japanese ENCS Inventory and others; and 2) satisfy requirements of the European, South-Korean or other countries' REACH Regulations (Registration, Evaluation, Authorization of Chemicals).
Animal studies performed on fragrance ingredients used by IFF are compliant with the requirements for animal testing as laid down in 1) the EU Cosmetics Regulation (EC) No 1223/2009 and in conformance with the interpretations included in the EC Communication document "COM(2013) 135 final" issued on March 11, 2013; and 2) the California Cosmetics Animal Testing Bill SB 1249 approved and filed on September 28, 2018.
Animal testing is only used as a last resort. Wherever possible, non-testing methods including in-vitro studies, read-across, modeling and exposure based waiving are applied instead.

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