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PURUS	B298 **LIME peel ORGANIC OIL**	*Date : 28/07/2025* *V 2*
TECHNICAL DATA SHEET		

Only for industrial use

1 - IDENTIFICATION

Type of product :	Organic Essential Oil
Botanical name :	Citrus aurantiifolia (Christmann) Swingle
Part of plant :	Zest
Country of manufacturing :	BRAZIL
Process :	Cold pressed
Natural content :	100,00 %

Preservative agent / Antioxidant / Preservative :

Designation	N° CAS	%
None	None	None

Carrier :

Designation	N° CAS	%
None	None	None

2 - PRODUCT CERTIFICATIONS

Kosher certification :	No
Halal certification :	No
Others :	ORGANIC : Coming from organic farming, certified by Ecocert France SAS FR-BIO-01

3 - ORGANOLEPTIC AND ANALYTICAL DATA

Odour :	Peeled, fresh and citric
Appearance :	Liquid which can become turbid with the presence of a deposit.
Color :	Dark greenish yellow
Specific gravity (D20/20) :	0,8620 / 0,8800
Refractive Index (ND20) :	1,4780 / 1,4880
Optical Rotation at 20°C :	1,0000 / 60,0000 °
GC profile (area%) :	Conforms to standard
GC(area%) Pinene Beta :	10,00 / 25,00 %
GC(area%) Limonene :	45,00 / 60,00 %
GC(area%) Terpinene Gamma :	8,00 / 17,00 %

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4 - REGULATION

INVENTORIES

N° CAS TSCA : 8008-26-2
N° CAS EINECS : 90063-52-8
N° EC : 290-010-3

Country inventories	Listed	Country inventories	Listed
TSCA Active	Yes	ISHL	No
EINECS	Yes	KECI	Yes
AIIC	Yes	PICCS	Yes
DSL	Yes	NzLOC	Yes
nDSL	No	TCSI	Yes
IECSC	Yes		

FOOD

Inventories registration does not guarantee food grade status, use in food applications is under customer responsibility.

Food allergens (EC Regulation n°1169/2011) : None

INVENTORIES :

N° FEMA : 2631

N° CoE : 141

N° FDA : 182.20

FRAGRANCE AND COSMETIC

INCI name (CosIng) : 100% CITRUS AURANTIFOLIA OIL (Syn: CITRUS AURANTIFOLIA PEEL OIL)

INCI name (PCPC) : 100% CITRUS AURANTIFOLIA (LIME) OIL (Syn: CITRUS AURANTIFOLIA (LIME) PEEL OIL)

INCI IECIC : Listed

INCI IECIC : CITRUS AURANTIFOLIA (LIME) OIL

5 - PACKAGING, HANDLING, STORAGE AND SHELF LIFE

Store in the original closed container temperature between 15°C and 20°C protected from air and light.

Shelf life : 36 Months

All our packaging are approved for food contact according to current European regulation.

6 - MISCELLANEOUS

This data sheet is completed to the best of our knowledge at the indicated date about above product(s) and remains the property of the issuer. As such the given information remains confidential.
The information above is given for guidance only. Although the greatest care has been taken to ensure its accuracy, changing regulations and individual product characteristics may require specification modifications or make it necessary to disclaim any warranty, expressed or implied, or liabilities. It belongs to the user, under his responsibility, to ensure the conditions and possibilities of use of the product(s), in particular with regard to laws and regulations. It's important to remind that the certifications and the manufacturing practices and environment are related to the grade (food/non-food) of the products. In case of dispute relating to the information communicated pursuant to regulations, only regulations in force shall prevail.

PURUS	B298	Date : 29/05/2026
COSMETIC ALLERGENS *REG. (EC) 1223/2009* *amended by (EC) 2023/1545*	**LIME peel ORGANIC OIL**	Page 1 sur 4

Name of common Ingredients Glossary or grouping name	TOTAL %
ALPHA TERPINENE	0,339
BETA-CARYOPHYLLENE	0,615
CAMPHOR	0,007
CITRAL	3,404
CITRONELLOL	0,063
GERANIOL	0,191
GERANYL ACETATE	0,293
LIMONENE	57,250
LINALOOL	0,249
PINENES	14,680
TERPINEOL	0,658
TERPINOLENE	0,681

Detection limit < 0.001%. The level of these substances is based on statistical analytical data and is not measured on each batch.
Method : (GC MS - ISTD)
Please be aware that we cannot guarantee the total absence of allergens in the fragrance.
The column with the total content includes intentionnal addition, natural components and known impurities.

Ces informations sont complétées au mieux de nos connaissances actuelles quant à la composition de nos produits et des ingrédients qui les composent, sur la base de mesures internes, de données fournies par nos fournisseurs et de données issues de la littérature spécialisée. Elles sont véridiques et exactes au moment de leur publication. Ces informations sont fournies au client à titre informatif et pour son usage interne uniquement. Nous déclinons toute responsabilité quant aux dommages pouvant résulter d'une utilisation erronée de ces données. Il incombe au client de procéder à ses propres évaluations concernant le produit, y compris en ce qui concerne les applications finales. Toute allégation relative aux produits, à la commercialisation ou à tout autre aspect relevant du client relève de la seule responsabilité de ce dernier.

Les informations mentionnées restent confidentielles et la propriété de l'émetteur.

The information is given to the best of our current knowledge regarding the composition of our products and their ingredients, based on internal measurements, data obtained by our suppliers and data from literature. It is true and accurate at the time of publication. This information is provided to the customer for information purposes and for internal use only. We accept no liability for any damages that may result from the incorrect use of this data. It is the customer's responsibility to carry out their own assessments of the product, including with regard to end-use applications. Any claims relating to the products, marketing or any other matter falling within the Client's responsibility are the sole responsibility of the Client.

The information provided remains confidential and is the property of the issuer.

PURUS *COSMETIC ALLERGENS* *REG. (EC) 1223/2009* *amended by (EC) 2023/1545*	**B298** **LIME peel ORGANIC OIL**	*Date : 29/05/2026* Page 2 sur 4

Annex :

List of fragrance allergens accordingto Annex III, regulation (EC) No 1223/2009.

Name of Common Ingredients Glossary	CAS Number
Acetyl Cedrene (Never found in nature)	32388-55-9
Amyl Cinnamal (Never found in nature)	122-40-7
Amyl Salicylate	2050-08-0
Amylcinnamyl Alcohol (Never found in nature)	101-85-9
Anise Alcohol	105-13-5
Anethol	104-46-1/ 4180-23-8
Benzaldehyde	100-52-7
Benzyl Alcohol	100-51-6
Benzyl Benzoate	120-51-4
Benzyl Cinnamate	103-41-3
Benzyl Salicylate	118-58-1
Camphor	76-22-2/ 21368-68-3/ 464-49-3/ 464-48-2
Cananga Odorata Flower Extract Cananga Odorata Flower Oil	83863-30-3/ 8006-81-3/ 68606-83-7/ 93686-30-7
Carvone	99-49-0/ 6485-40-1/ 2244-16-8
Beta- Caryophyllene	87-44-5
Cedrus Atlantica Bark Extract Cedrus Atlantica Bark Oil Cedrus Atlantica Bark Water Cedrus Atlantica Leaf Extract Cedrus Atlantica Wood Extract Cedrus Atlantica Wood Oil	92201-55-3/ 8023-85-6
Cinnamal	104-55-2
Cinnamomum Cassia Leaf Oil	8007-80-5/ 84961-46-6
Cinnamomum Zeylanicum Bark Oil	8015-91-6/ 84649-98-9
Cinnamyl Alcohol	104-54-1
Citral / Neral / Geranial	5392-40-5/ 106-26-3/ 141-27-5
Citronellol	106-22-9 / 26489-01-0/ 1117-61-9/ 7540-51-4
Citrus Aurantium Amara Flower Oil Citrus Aurantium Dulcis Flower Oil	72968-50-4/ 8028-48-6/ 8016-38-4
Citrus Aurantium Bergamia peel oil	8007-75-8/ 89957-91-5/ 68648-33-9/ 8007-75-8/ 85049-52-1
Citrus Limon Peel Oil	84929-31-7/ 8008-56-8
Citrus Aurantium Amara Peel Oil Citrus Aurantium Dulcis Peel Oil Citrus Sinensis Peel Oil	68916-04-1/ 72968-50-4/ 97766-30-8/ 8028-48-6 / 8008-57-9
Coumarin	91-64-5
Cymbopogon Schoenanthus Oil Cymbopogon Flexuosus Oil Cymbopogon Citratus Leaf Oil	8007-02-1/ 89998-16-3/ 91844-92-7 / 8007-02-1
Dimethyl Phenethyl Acetate (Never found in nature)	151-05-3
Eucalyptus Globulus Leaf Oil Eucalyptus Globulus Leaf/ Twig Oil	97926-40-4/ 8000-48-4
Eugenia Caryophyllus Leaf Oil Eugenia Caryophyllus Flower Oil Eugenia Caryophyllus Stem Oil Eugenia Caryophyllus Bud Oil	8000-34-8/ 8015-97-2/ 84961-50-2
Eugenol	97-53-0
Eugenyl Acetate	93-28-7
Evernia Prunastri Extract	90028-68-5
Evernia Furfuracea Extract	90028-67-4
Farnesol	4602-84-0
Geraniol	106-24-1
Geranyl Acetate	105-87-3

PURUS *COSMETIC ALLERGENS* *REG. (EC) 1223/2009* *amended by (EC) 2023/1545*	**B298** **LIME peel ORGANIC OIL**	*Date : 29/05/2026* Page 3 sur 4

Name of Common Ingredients Glossary	CAS Number
Hexadecanolactone (Dihydroambrettolide)	109-29-5
Hexamethylindanopyran (Never found in nature)	1222-05-5
Hexyl Cinnamal (Never found in nature)	101-86-0
Hydroxycitronellal (Never found in nature)	107-75-5
α-Isomethyl Ionone (Never found in nature)	127-51-5
Isoeugenol	97-54-1/ 5932-68-3/ 5912-86-7
Isoeugenyl Acetate	93-29-8
Jasminum Grandiflorum Flower Extract Jasminum Officinale Oil Jasminum Officinale Flower Extract	84776-64-7/ 90045-94-6/ 8022-96-6/ 8024-43-9/ 90045-94-6
Juniperus Virginiana Oil Juniperus Virginiana Wood Oil	8000-27-9 / 85085-41-2
Laurus Nobilis Leaf Oil	8002-41-3/ 8007-48-5/ 84603-73-6
Lavandula Hybrida Oil Lavandula Hybrida Extract Lavandula Hybrida Flower Extract Lavandula Intermedia Flower/Leaf/Stem Extract Lavandula Intermedia Flower/Leaf/Stem Oil Lavandula Intermedia Oil Lavandula Angustifolia Oil Lavandula Angustifolia Flower/Leaf/Stem 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/ 84776-65-8/ 8000-28-0/ 90063-37-9
Limonene	5989-27-5/5989-54-8/ 138-86-3/ 7705-14-8
Linalool	78-70-6
Linalyl Acetate	115-95-7
Lippia Citriodora Absolute	8024-12-2/ 85116-63-8
Mentha Piperita Oil	8006-90-4/ 84082-70-2
Mentha Viridis Leaf Oil (Mentha spicata oil)	8008-79-5/ 84696-51-5
Menthol	89-78-1/ 1490-04-6/ 2216-51-5/ 15356-60-2
6-Methylcoumarin (Never found in nature)	92-48-8
Methyl 2-Octynoate (MHC) (Never found in nature)	111-12-6
Methyl Salicylate	119-36-8
Myroxylon Balsamum Pereirae Balsam Extract Myroxylon Balsamum Pereirae Balsam Oil Myroxylon Pereirae Oil Myroxylon Pereirae Resin Extract Myroxylon Pereirae Resin	8007-00-9
Narcissus Poeticus Extract Narcissus Pseudonarcissus Flower Extract Narcissus Jonquilla Extract Narcissus Tazetta Extract	90064-26-9/ 68917-12-4 / 90064-27-0/ 90064-25-8
Pelargonium Graveolens Flower Oil Pelargonium Graveolens Oil Pelergonium Graveolens Leaf Oil	90082-51-2/ 8000-46-2
Pinenes	80-56-8/ 7785-70-8/ 127-91-3/ 18172-67-3
Pinus mugo Leaf Oil Pinus Mugo Twig Leaf Extract Pinus Mugo Twig Oil	90082-72-7
Pinus Pumilia Needle Extract Pinus Pumilia Twig Leaf Extract Pinus Pumilia Twig Leaf Oil	97676-05-6
Pogostemon Cablin Oil Pogostemon Cablin Leaf Oil	8014-09-3/ 84238-39-1
3-Propylidenephthalide	17369-59-4

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Name of Common Ingredients Glossary	CAS Number
Rosa Damascena Flower Oil Rosa Damascena Flower Extract Rosa Alba Flower Oil Rosa Alba Flower Extract Rosa Canina Flower Oil Rosa Centifolia Flower Oil Rosa Centifolia Flower Extract Rosa Gallica Flower Oil Rosa Moschata Flower Oil Rosa Rugosa Flower Oil	8007-01-0/ 90106-38-0/ 93334-48-6 / 84696-47-9/ 84604-12-6 /84604-13-7/ 92347-25-6
Alpha-Damascone Cis-Rose ketone 1 Rose ketone 4 (Damascone) Rose ketone 3 (delta-Damascone) trans-Rose ketone 3 Cis-Rose ketone 2 (cis-beta-Damascone) Trans-Rose ketone 2 (trans-beta-Damascone)	43052-87-5/ 23726-94-5/ 24720-09-0/ 23696-85-7/ 57378-68-4/ 71048-82-3/ 23726-92-3/ 23726-91-2
Salicylaldehyde	90-02-8
Santalol	11031-45-1/ 115-71-9/ 77-42-9
Santalum Album Oil	8006-87-9/ 84787-70-2
Sclareol	515-03-7
Alpha Terpinene	99-86-5
Terpineol	8000-41-7/ 98-55-5/ 138-87-4/ 586-81-2
Terpinolene	586-62-9
Tetramethylacetyloctahydronaphtalenes (Iso E Super) (Never found in nature)	54464-57-2/ 54464-59-4/ 68155-66-8/ 68155-67-9
Trimethylbenzenepropanol (Never found in nature)	103694-68-4
Trimethylcyclopentenyl Methylisopentenol (Ebanol) (Never found in nature)	67801-20-1
Turpentine	9005-90-7/ 8006-64-2/ 8052-14-0
Vanillin	121-33-5

IFRA 51

Product code* / Code du produit : *B298

***Product name* / Nom commercial :**
LIME peel ORGANIC OIL / CITRON VERT zest Brésil HE BIO

We certify that the above product is in compliance with the Standards of the International Fragrance Association (IFRA - 51st amendment, published June 2023), provided it is used in the following category(ies) at a maximum concentration level of :
Nous certifions que le produit ci-dessus est en conformité avec les normes de l'International Fragrance Association (IFRA - 51ème amendement, publié en juin 2023), à condition qu'il soit utilisé dans les catégories suivantes à un niveau de concentration maximale de :

IFRA Categories / Catégories IFRA		MAX. USE LEVEL % % Maximal d'utilisation
1 *	Products applied to the lips / Produits appliqués sur les lèvres	0,047
2	Products applied to the axillae / Produits appliqués sur les aisselles	0,380
3	Products applied to the face/body using fingertips / Produits appliqués sur le visage/corps du bout des doigts	0,095
4	Products related to fine fragrance / Produits liés à la Parfumerie fine	0,681
5A	Body lotion products applied to the body using the hands (palms), primarily leave on / Produits de lotion pour le corps appliqués sur le corps à l'aide des mains (paumes), principalement non rincés	0,334
5B	Face moisturizer products applied to the face using the hands (palms), primarily leave on / Produits hydratants pour le visage appliqués sur le visage à l'aide des mains (paumes), principalement non rincés	0,095
5C	Hand cream products applied to the hands using the hands (palms), primarily leave on / Produits de crème pour les mains appliqués sur les mains en utilisant les mains (paumes), principalement non rincés	0,095
5D	Baby Creams, baby Oils and baby talc / Crème pour bébé, huiles pour bébé et talc pour bébé	0,031
6 *	Products with oral and lip exposure / Produits avec exposition orale et labiale	0,288
7A	Rinse-off products applied to the hair with some hand contact / Produits rincés appliqués sur les cheveux avec un certain contact avec les mains	0,095
7B	Leave-on products applied to the hair with some hand contact / Produits non rincés appliqués sur les cheveux avec un certain contact avec les mains	0,095
8	Products with significant anogenital exposure / Produits à exposition anogénitale importante	0,031
9	Products with body and hand exposure, primarily rinse off / Produits corps et mains, principalement rincés	0,623
10A	Household care products with mostly hand contact: Household care excluding aerosol/spray products / Produits d'entretien ménager avec contact principalement avec les mains à l'exclusion des produits aérosols et sprays	0,142
10B	Household care products with mostly hand contact: Household aerosol/spray products / Produits d'entretien ménager avec contact principalement avec les mains : produits aérosols et sprays	0,334
11A	Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate without UV exposure / Produits avec contact cutané prévu mais transfert minimal de parfum sur la peau sans exposition aux UV	0,031
11B	Products with intended skin contact but min. transfer of fragrance to skin from inert substrate with potential UV exposure / Produits avec contact cutané prévu mais transfert minimal de parfum sur la peau avec exposition aux UV	0,031
12	Products not intended for direct skin contact, minimal or insignificant transfer to skin / Produits non destines à un contact direct avec la peau	16,722

* *Please check the flavour status on the technical data sheet to confirm the percentage otherwise its usage is prohibited for that category (0%)*
Merci de vérifier le statut alimentaire sur la fiche technique pour confirmer le pourcentage sinon l'usage est interdit pour cette catégorie (0%).

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Recommendation: information about presence and concentration of IFRA restricted/prohibited materials in the fragrance compounds is as follows:

Recommandation: informations sur la présence et la concentration de matières IFRA restreintes/interdites dans le composé ci-dessus est comme suit:

RESTRICTED MATERIAL(S) / MATIERE(S) RESTREINTE(S)

Name	CAS Number	%
Lime oil expressed	8008-26-2	100,000
Citral	5392-40-5	3,404
Anisyl alcohol	105-13-5	2,006
Cuminaldehyde	122-03-2	0,958
Estragole	140-67-0	0,658
Cyclamen aldehyde	103-95-7	0,483
Rose ketones	23696-85-7	0,293
α-Thujone	546-80-5	0,249
Bergapten (5-MOP)	484-20-8	0,220
Geraniol	106-24-1	0,191
Cinnamic aldehyde	104-55-2	0,178
Farnesol	4602-84-0	0,152
Citronellyl acetate	150-84-5	0,137
α-Bisabolol	23089-26-1	0,105
p-Methoxybenzaldehyde	123-11-5	0,063
Eugenol	97-53-0	0,003
2-Hexenal	6728-26-3	0,002

PROHIBITED MATERIAL(S) / MATIERE(S) INTERDITE(S)

Name	CAS Number	%
Safrol	94-59-7	0,001

Detection limit < 0.001%. The level of these substances is based on statistical analytical data and is not measured on each batch.

Limite de détection <0,001%. Le taux de ces substances est basé sur des données statistiques et n'est pas mesuré sur chaque lot.

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.

Ce certificat fournit des restrictions pour l'utilisation du produit spécifié sur la base uniquement sur les matières réglementées par normes de l'IFRA pour le critère de toxicité (s) décrit dans chaque norme. Ce certificat ne prévoit pas la certification d'une évaluation complète de la sécurité de tous les constituants de ce produit.

It is the ultimate responsibility of our customer to ensure the safety of the final product (containing this compound) by further testing if need be.

Il est de la responsabilité ultime de notre client d'assurer la sécurité du produit final (contenant ce composé) par des essais supplémentaires si besoin est.

Date : 28/07/2025

This document is completed to the best of our knowledge at the indicated date about above product(s) and remains the property of the issuer. As such the given information remains confidential.
The information above is given for guidance only. Although the greatest care has been taken to ensure its accuracy, changing regulations and individual product characteristics may require specification modifications or make it necessary to disclaim any warranty, expressed or implied, or liabilities. It belongs to the user, under his responsibility, to ensure the conditions and possibilities of use of the product(s), in particular with regard to laws and regulations. It's important to remind that the certifications and the manufacturing practices and environment are related to the grade (food/non-food) of the products. In case of dispute relating to the information communicated pursuant to regulations, only regulations in force shall prevail.

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Ce document est complété au mieux de nos connaissances à la date indiquée sur le document et concerne le(s) produit(s) indiqué(s) ci-dessus et reste la propriété de l'émetteur. Les informations mentionnées restent confidentielles.
Les informations ci-dessus sont données à titre indicatif seulement. Bien que le plus grand soin ait été pris pour garantir leur exactitude, l'évolution de la réglementation et des caractéristiques individuelles des produits peuvent nécessiter des modifications de spécifications ou rendre nécessaire le fait de décliner toute responsabilité ou garantie, exprimée ou implicite. Il appartient à l'utilisateur, sous sa responsabilité, de s'assurer des conditions et des possibilités d'utilisation du produit, en particulier à l'égard des lois et règlementations. Il est important de souligner que les certifications et les pratiques de fabrication et leur environnement sont relatifs à la classification (alimentaire-non-alimentaire) du produit. En cas de litige relatif à l'information communiquée en vertu des règlementations, seules les règlementations en vigueur prévaudront.

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CHEMICAL SAFETY DATA SHEET

according to 2020/878/EC (1907/2006/EC Article 31)

2299405

Reviewed on: 22.05.2026
Printing date: 22.05.2026

SECTION 01: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Trade name:
  LIME peel ORGANIC OIL
- Article number:
  B298
- CAS Number:
  8008-26-2
- EC Number:
  290-010-3
- No CAS EINECS:
  90063-52-8

1.2 Relevant identified uses of the substance or mixture and uses advised against
Application of the substance / the preparation
Only for industrial use

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
PURUS | EIK 206367998
7 Gerlovo str., Targovishte 7700, Bulgaria
+359 882 555 500 | office@purus.bg
www.purus.bg

1.4 Emergency telephone number:
FR-ORFILA (INRS):+33(0)1 45 42 59 59

SECTION 02: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS08

Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways.



GHS02

Flam. Liq. 3 - H226 Flammable liquid and vapour.



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.
Skin Sens. 1 - H317 May cause an allergic skin reaction.



GHS09

Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms



GHS08 GHS02 GHS07 GHS09

- Signal word
  Danger
- Hazard statements

(continued on page 2)

PURUS document review: 10.11.2026 - technical content unchanged
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CHEMICAL SAFETY DATA SHEET

according to 2020/878/EC (1907/2006/EC Article 31)

2299405

Reviewed on: 22.05.2026
Printing date: 22.05.2026

PRODUCT : LIME peel ORGANIC OIL

(continued of page 1)

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

- Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

2.3 Other hazards

- Results of PBT and vPvB assessment
- PBT:
Not applicable.
- vPvB:
Not applicable.

- Determination of endocrine-disrupting properties
None of the ingredients is listed.

SECTION 03: Composition/information on ingredients

3.1 Substances

CAS No. **Description**

8008-26-2 Citrus aurantiifolia (Christmann) Swingle

- Identification number(s)
- EC number:
290-010-3

- Dangerous components:

*	CAS Number		%
	5989-27-5	**d-limonene** EC number: 227-813-5 Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Skin Irrit. 2 - H315, Skin Sens. 1B - H317; Aquatic Acute 1 - H400 (M=1); Aquatic Chronic 3 - H412	**50,001-100**
	99-85-4	**p-Mentha-1,4-diene** EC number: 202-794-6 Flam. Liq. 3 - H226; Repr. 2 - H361; Aquatic Chronic 2 - H411	**10,001-20,00**
	127-91-3	**BETA-PINENE** EC number: 204-872-5 Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Skin Irrit. 2 - H315, Skin Sens. 1B - H317	**10,001-20,00**
	5392-40-5	**CITRAL** EC number: 226-394-6 Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	**1,001- 5,000**
	80-56-8	**ALPHA-PINENE** EC number: 201-291-9 Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Skin Sens. 1B - H317	**1,001- 5,000**

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*	**3387-41-5**	**sabinene**	**1,001- 5,000**
*		EC number: 222-212-4	
*		Acute Tox. 4 - H302	
*	**495-61-4**	**l-.beta.-Bisabolene**	**1,001- 5,000**
*		EC number: 610-461-5	
*		Asp. Tox. 1 - H304; Skin Irrit. 2 - H315, Skin Sens. 1 - H317	
*	**123-35-3**	**Myrcene**	**1,001- 5,000**
*		EC number: 204-622-5	
*		Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	
*	**141-12-8**	**Neryl acetate**	**1,001- 5,000**
*		EC number: 205-459-2	
*		Skin Sens. 1B - H317	
*	**586-62-9**	**TERPINOLENE**	**0,101-1,000**
*		EC number: 209-578-0	
*		Asp. Tox. 1 - H304; Skin Sens. 1 - H317; Aquatic Acute 1 - H400 (M=1), Aquatic Chronic 1 - H410 (M=1)	
*	**87-44-5**	**BETA-CARYOPHYLLENE**	**0,101-1,000**
*		EC number: 201-746-1	
*		Asp. Tox. 1 - H304; Skin Sens. 1B - H317	
*	**99-87-6**	**p-cymene**	**0,101-1,000**
*		EC number: 202-796-7	
*		Acute Tox. 3 - H331; Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Aquatic Chronic 2 - H411	
*	**99-86-5**	**1-isopropyl-4-methylcyclohexa-1,3-diene**	**0,101-1,000**
*		EC number: 202-795-1	
*		Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Acute Tox. 4 - H302, Skin Sens. 1 - H317; Aquatic Chronic 2 - H411	
*	**105-87-3**	**GERANYL ACETATE**	**0,101-1,000**
*		EC number: 203-341-5	
*		Skin Irrit. 2 - H315, Skin Sens. 1 - H317; Aquatic Chronic 3 - H412	
*	**562-74-3**	**4-Carvomenthenol**	**0,101-1,000**
*		EC number: 209-235-5	
*		Acute Tox. 4 - H302, Acute Tox. 4 - H332, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317, STOT SE 3 - H336	
*	**78-70-6**	**LINALOOL**	**0,101-1,000**
*		EC number: 201-134-4	
*		Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	
*	**106-24-1**	**GERANIOL**	**0,101-1,000**
*		EC number: 203-377-1	

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*		Eye Dam. 1 - H318; Skin Irrit. 2	
*		- H315, Skin Sens. 1 - H317	
*	**106-25-2**	**Nerol**	**0,101-1,000**
*		EC number: 203-378-7	
*		Skin Irrit. 2 - H315, Eye Irrit. 2 -	
*		H319, Skin Sens. 1B - H317	
*	**470-82-6**	**Eucalyptol**	**0,101-1,000**
*		EC number: 207-431-5	
*		Flam. Liq. 3 - H226; Skin Sens.	
*		1B - H317	

SECTION 04: First aid measures

4.1 Description of first aid measures
- General information:
  Seek immediate medical advice.
- After inhalation:
  Supply fresh air and to be sure call for a doctor.
- After skin contact:
  If skin irritation continues, consult a doctor.
  Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
  Seek immediate medical advice.
- Information for doctor:

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 05: Firefighting measures

5.1 Extinguishing media
- Suitable extinguishing agents:
  CO2, sand, extinguishing powder. Do not use water.
  Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents:
  Water with full jet

5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters
- Protective equipment:
  Do not inhale explosion gases or combustion gases.
- Additional information
  Cool endangered receptacles with water spray.

SECTION 06: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.

6.2 Environmental precautions:
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.

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6.3 Methods and material for containment and cleaning up:
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 07: Handling and storage

7.1 Precautions for safe handling
Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Handle with care. Avoid jolting, friction and impact.
- Information about fire - and explosion protection:
  Keep ignition sources away - Do not smoke.
  Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
- Requirements to be met by storerooms and receptacles:
  Store only in the original receptacle.
  Prevent any seepage into the ground.
  Use only receptacles specifically permitted for this substance/ product.
- Information about storage in one common storage facility:
  Not required.
- Further information about storage conditions:
  Keep container tightly sealed.
  Protect from heat and direct sunlight.
  Store receptacle in a well ventilated area.

7.3 Specific end use(s)
No further relevant information available.

SECTION 08: Exposure controls/personal protection

8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:
  Not required.
- Additional information:
  The lists valid during the making were used as basis.

8.2 Exposure controls
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
  The usual precautionary measures are to be adhered to when handling chemicals.
  Keep away from foodstuffs, beverages and feed.
  Immediately remove all soiled and contaminated clothing
  Wash hands before breaks and at the end of work.
  Avoid contact with the skin.
- Respiratory protection:
  Use suitable respiratory protective device in case of insufficient ventilation.
- Protection of hands:
  Protective gloves
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- Penetration time of glove material
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- Eye/face protection
  Safety glasses
- Body protection:
  Impervious protective clothing
  Boots

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Physical state	Liquid
Colour:	green-yellow
Odour:	fresh
Odour threshold:	Not determined.
Boiling point or initial boiling point and boiling range	Not determined.
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	46,0 °C NFT 60-103 CC
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Not determined.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	Not determined.
Relative density	0,8620 0,880 D20/20
Vapour density	Not determined.
9.2 Other information	No further relevant information available.
Appearance:	
Form:	liquid / may contain a deposit
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Solvent content:	
Solids content:	0,00 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classes	
Explosives	not applicable
Flammable gases	not applicable
Aerosols	not applicable
Oxidising gases	not applicable
Gases under pressure	not applicable
Flammable liquids	Flammable liquid and vapour.
Flammable solids	not applicable

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Self-reactive substances and mixtures	not applicable
Pyrophoric liquids	not applicable
Pyrophoric solids	not applicable
Self-heating substances and mixtures	not applicable
Substances and mixtures, which emit flammable gases in contact with water	not applicable
Oxidising liquids	not applicable
Oxidising solids	not applicable
Organic peroxides	not applicable
Corrosive to metals	not applicable
Desensitised explosives	not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity
No further relevant information available.

10.2 Chemical stability

10.3 Possibility of hazardous reactions
No dangerous reactions known.

10.4 Conditions to avoid
No further relevant information available.

10.5 Incompatible materials:
No further relevant information available.

10.6 Hazardous decomposition products:
Not determined.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity
- LD/LC50 values relevant for classification:

ISO LD/LC

8008-26-2 Citrus aurantiifolia (Christmann) Swingle
Oral, LD50: >=5000 mg/kg (rat)
Dermal, LD50: >=5000 mg/kg (Rabbit)

5989-27-5 (R)-p-mentha-1,8-diene
Oral, LD50: 4400 mg/kg (rat)

5392-40-5 CITRAL
Oral, LD50: 4960 mg/kg (rat)

87-44-5 BETA-CARYOPHYLLENE
Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)

99-86-5 ALPHA-TERPINENE
Oral, LD50: 1680 mg/kg (ATE)

105-87-3 GERANYL ACETATE
Oral, LD50: >4000 mg/kg (rat) (NTP 1987)

78-70-6 LINALOOL
Oral, LD50: 2790 mg/kg (rat)
Dermal, LD50: 5610 mg/kg (Rabbit)

470-82-6 Eucalyptol
Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014)

- Primary irritant effect:
- Skin corrosion/irritation
Irritant to skin and mucous membranes.
Causes skin irritation.
- Serious eye damage/irritation

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No irritating effect.
* • Respiratory or skin sensitisation
Sensitization possible through skin contact.
* • Germ cell mutagenicity
* **87-44-5 BETA-CARYOPHYLLENE**
* OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989)
* **105-87-3 GERANYL ACETATE**
* OECD 471 AMES: NEGATIVE (in vitro) (NTP 1987)
78-70-6 LINALOOL
OECD 471 AMES: NEGATIVE (in vitro) (Letizia and al., 2007)
* **470-82-6 Eucalyptol**
* OECD 471 AMES: NEGATIVE (in vitro) (Haworth, 1983)
* • Carcinogenicity
* **105-87-3 GERANYL ACETATE**
* Micronoyau: NEGATIVE (mouse) (in vivo, Shelby 1993)
* **78-70-6 LINALOOL**
* Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007)
* Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)
• Reproductive toxicity
Not determined.
• STOT-single exposure
Not determined.
• STOT-repeated exposure
Not determined.
• Aspiration hazard
May be fatal if swallowed and enters airways.
May be fatal if swallowed and enters airways.
• Subacute to chronic toxicity:
Not determined.
• 11.2 Information on other hazards
• Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity
* • Aquatic toxicity:
8008-26-2 Citrus aurantiifolia (Christmann) Swingle
CE50/48h: 55,9 mg/l (daphnia)
5989-27-5 (R)-p-mentha-1,8-diene
LD50: 0,71 mg/l (fish) (OECD 203)
123-35-3 Myrcene
LD50: 0,51 mg/l (fish) (OECD 203)
CE50/48h: 0,65 mg/l (daphnia)
* 99-87-6 p-cymene
* LD50: 1,63 mg/l (fish) (OECD 203)
* 78-70-6 LINALOOL
* LD50: 27,8 mg/l (fish) ((OECD 203) RIFM 1991)
* ErC50(0-72h): 156,7 mg/l (algae)
* ErC50(0-48h): 59 mg/l (daphnia) ((OECD 202)

12.2 Persistence and degradability
No further relevant information available.
• Behaviour in environmental systems:
Not determined.

12.3 Bioaccumulative potential
No further relevant information available.

12.4 Mobility in soil
No further relevant information available.

12.5 Results of PBT and vPvB assessment
• PBT:
Not applicable.

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- vPvB:
  Not applicable.

12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects
No further relevant information available.
- Ecotoxical effects:
  Not determined.
- Additional ecological information:
- General notes:
  The material is harmful to the environment.

SECTION 13: Disposal considerations

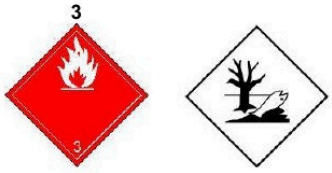
13.1 Waste treatment methods
- Recommendation
  Must be specially treated adhering to official regulations.
- Uncleaned packaging:
- Recommendation:
  Disposal must be made according to official regulations.

SECTION 14: Transport information

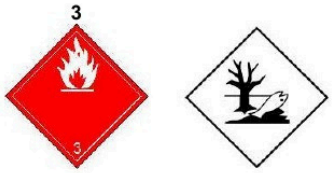
14.1 UN number or ID number
. **ADR** UN1197
. **IMDG** UN1197
. **IATA** UN1197

14.2 UN proper shipping name
. **ADR** 1197 EXTRACTS, LIQUID
. **IMDG** EXTRACTS, LIQUID (CITRUS AURANTIIFOLIA)
. **IATA** EXTRACTS, LIQUID

14.3 Transport hazard class(es)
. **ADR**
. **Class** 3 (F1) Flammable liquids.
. **Label**



. **IMDG**
. **Class** 3 Flammable liquids.
. **Label**



. **IATA**
. **Class** 3 Flammable liquids.
. **Label**



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14.4 Packing group

. **ADR**	III
. **IMDG**	III
. **IATA**	III

14.5 Environmental hazards:

. **Marine pollutant:**	Yes
. **Danger code (Kemler):**	30
. **EMS Number:**	F-E,S-D

14.6 Special precautions for user
Warning: Flammable liquids.

14.7 Maritime transport in bulk according to IMO instruments
Not applicable.

- Transport/Additional information:

. **ADR**	
. **Excepted quantities (EQ):**	E1
. **Limited quantities (LQ)**	5L
. **Transport category**	3
. **Tunnel restriction code**	D/E
. **IMDG**	
. **Limited quantities (LQ)**	5L
. **Excepted quantities (EQ)**	E1

- UN "Model Regulation":
  UN 1197 EXTRACTS, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

- PFAS
  None of the ingredients is listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II
  None of the ingredients is listed.
- REGULATION (EU) 2019/1148
- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
  None of the ingredients is listed.
- Annex II - REPORTABLE EXPLOSIVES PRECURSORS
  None of the ingredients is listed.
- Regulation (EC) No 273/2004 on drug precursors
  None of the ingredients is listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
  None of the ingredients is listed.

- National regulations:

- Technical instructions (air):
- Class Share in %
  I

- Waterhazard class:
  Generally not hazardous for water.

15.2 Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

The information in this safety data sheet is based on the state of our knowledge at the date indicated. The information in this sheet must be regarded as a description of the safety requirements for the product, they are not to be considered a warranty or quality specification and have no contractual value on properties and application areas thereof. The information contained in this safety data sheet relate to the specific material designated and may not be valid with respect to the product associated with another product or process, unless it is specified in the text of this document.
The required information complies with EU regulations in force. It does not exempt the user from knowing and applying all the national regulations in force.

* • Relevant phrases

	H226	Flammable liquid and vapour.
	H302	Harmful if swallowed.
	H304	May be fatal if swallowed and enters airways.
*	H315	Causes skin irritation.
*	H317	May cause an allergic skin reaction.
*	H318	Causes serious eye damage.
*	H319	Causes serious eye irritation.
*	H331	Toxic if inhaled.
*	H332	Harmful if inhaled.
*	H336	May cause drowsiness or dizziness.
*	H361	Suspected of damaging fertility or the unborn child.
*	H400	Very toxic to aquatic life.
*	H410	Very toxic to aquatic life with long lasting effects.
*	H411	Toxic to aquatic life with long lasting effects.
*	H412	Harmful to aquatic life with long lasting effects.

- Training hints

Minimum training in occupational risk prevention is recommended for personnel who will handle this product, in the purpose of facilitating the understanding and interpretation of this form of safety data in the same way as the labeling of the product.

- Abbreviations and acronyms:

IFRA:International Fragrance Association IOFI:International Organization of the Flavor Industry
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

- Sources

IFRA/IOFI Labelling Manual,REACH registration dossier,supplier information

- * Data compared to the previous version altered.