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CERTIFICAT D'ANALYSE / ANALYSIS CERTIFICATE

Lemongrass (flexuosus) (HE) Bio
Cymbopogon flexuosus

Lot N° **Inde 59985-1**

Produit 100% pur et naturel / Product 100% pure and natural
Produit Issu de l'agriculture biologique certifié par FR-BIO-01

Date Analyse 03/07/2020

Données physiques / Physical data		déterminées à 20°C / determined at 20°C	
Densité / Specific gravity	0.896	Indice d'acide	nd
Indice de réfraction / Refractive index	1.4852	Indice de peroxyde	nd
Pouvoir rotatoire / Optical rotation	-2.65	Indice iode	nd

Principaux composants / Main components (* : reconnu allergisant / recognized as allergen)

Composants	**Taux / %**
Alpha pinène	0.26
Camphène	1.31
Myrcène	0.08
Limonène*	0.31
Cis Beta ocimène	0.34
Gamma terpinène	0.01
Trans Beta Ocimène	0.21
Paracymène	0.01
4-nonanone	1.08
6-Methyl - 5 - Heptene-2-One	1.33
Furfural	nd
Isoneral	0.37
photocitral A	0.83
Linalol *	1.13
photocitral B	0.92
epsilon cadinène	0.37
Beta Caryophyllène	1.44

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CERTIFICAT D'ANALYSE / ANALYSIS CERTIFICATE

Methyl chavicol	nd
Neral	31.49
Bornéol	0.17
Alpha terpinéol	0.14
Germacrène D	0.22
Geranial	42.09
geranyl acetate	3.54
Delta cadinène	1.17
Citronellol *	0.10
Géraniol *	6.39
Cubébol	0.25
Caryophyllène oxyde	0.49
Méthyl eugénol	nd
Iso eugénol *	0.42

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TECHNICAL DATA SHEET / FICHE TECHNIQUE

Huile essentielle de Lemongrass (flexuosus), Bio, Inde
Lemongrass (flexuosus) essential oil, organic, India

Cymbopogon flexuosus

Code Produit : 10254

Directives CE 91/55/CEE, Règlement CE n°1907/2006 (annexe II, article 31 : REACH), Code of Practice 2008-EFFA

METHOD OF EXTRACTION / MÉTHODE D'OBTENTION

Common name/Nom commercial:	Lemongrass (flexuosus) (HE) Bio / Lemongrass (flexuosus) Organic Essential Oil
Organic Proportion / Pourcentage Bio :	100,00 %
Certification ECOCERT :	AB
Geographic origin of the plant/Origine géographique de la plante :	Inde / India
Method of growing/Croissance:	Growing, certification non GMO/Culture, certifiée non OGM
Method of extraction/Méthode d'obtention:	Vapor steam distillation/Distillation vapeur d'eau
Distilled part/Partie distillée :	Aerial part/Parties aériennes

ORGANOLEPTIC PROPERTIES / PROPRIETES ORGANOLEPTIQUES

Appearance/Aspect :	Mobile and limpid liquid/Liquide mobile, limpide
Color/Couleur :	Pale yellow to yellowish brown/Jaune pâle à brun jaunâtre
Odor/Odeur :	Strong, green, reminding citral/Puissante, verte, rappelant le citral

PHYSICO-CHEMICAL PROPERTIES / CARACTERISTIQUES PHYSICO-CHIMIQUES

Specific gravity/Densité :	[0,885 ... 0,905]	***Peroxyd value/Indice peroxyde :***	
Refractive index /Indice de réfraction :	[1,483 ... 1,489]	***Acid value/Indice acide :***	
Optical rotation/Pouvoir rotatoire :	[-4,000 ... 1,000] °	***INS/Indice saponification :***	
Flash point/Point éclair :	89,00 °C	***Anisidin value/Indice anisidine :***	

MAIN COMPONENTS / PRINCIPAUX COMPOSANTS

Composés	Concentration (%)		N°CAS	N°EINECS
	Min	Max		
Citral (neral + geranial) *	60,00 %	82,00 %	5392-40-5	226-394-6

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LEGISLATION / LEGISLATION

CNS, Natural Complex Substances/ SNC, Substance Naturelle Complexe:	100% pure and natural/100% pure et naturelle
Latin Name / Nom Latin :	Cymbopogon flexuosus
INCI CTFA Name :	CYMBOPOGON FLEXUOSUS OIL*
N° CAS TSCA :	8007 -02 -1
N° CAS EINECS:	91844-92-7
N°EINECS :	295-161-9
N°FEMA :	2624
N°CoE :	2045
N°FDA :	182.20

REGULATORY INFORMATIONS / INFORMATIONS REGLEMENTAIRES

HAZARDS IDENTIFICATION / IDENTIFICATION DES DANGERS :

List of classes and hazard categories / Liste des classes et catégories de danger (Règlement (CE) n° 1272/2008)

H315: Causes skin irritation./Provoque une irritation cutanée.
H317: May cause an allergic skin reaction./Peut provoquer une allergie cutanée.
H318: Causes serious eye damage./Provoque des lésions oculaires graves.
H400 : Very toxic to aquatic life. - Très toxique pour les organismes aquatiques.
H410 : Very toxic to aquatic life with long lasting effects. - Très toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme.

List of safety recommendations / Liste des conseils de prudence (Règlement (CE) n° 1272/2008)

P302 + P352: IF ON SKIN: Wash with plenty of soap and water./EN CAS DE CONTACT AVEC LA PEAU: laver abondamment à l'eau et au savon.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing./EN CAS DE CONTACT AVEC LES YEUX: rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.
P501: Dispose of contents/container according to local regulation./Éliminer le contenu/récipient selon la règlementation en vigueur.
P333+P313 : If skin irritation or rash occurs: Get medical advice/attention. - En cas d'irritation ou d'éruption cutanée: consulter un médecin.

SUBSTANCE CLASSIFICATION CMR (CARCINOGENIC, MUTAGENIC, TOXIC FOR REPRODUCTION) / CLASSIFICATION SUBSTANCE CMR (CARCERONOGENE, MUTAGENE, TOXIQUE POUR LA REPRODUCTION) :

Not regulated/Non réglementé

HANDLING, STORAGE AND SHELF LIFE / MANIPULATION, STOCKAGE ET DURÉE DE VIE

Handling/Manipulation : Wear safety glasses, gloves and apron when handling.Do not ingest. Keep away from food/beverage. Do not smoke near. Do not breathe hot vapors. Do not heat at open flame or expose vapors to a flame or ignition sources. Work in a well-ventilated area./Porter des lunettes de protection, des gants et une blouse pendant l'utilisation. Eviter le contact avec le produit. Ne pas ingérer. Tenir éloigné de toute nourriture/boisson. Ne pas fumer à proximité. Ne pas respirer les vapeurs. Ne pas chauffer à flamme nue, ni exposer les vapeurs à une flamme ou à une autre source d'ignition. Une bonne aération des locaux est souhaitable.

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Storage/Stockage : Do not store in close proximity to heat, sparks, open flames, strong acids, strong bases. To minimise product degradation, avoid prolonged exposure of the material to air. Keep container tightly closed when not in use./Ne pas conserver à proximité d'une source de chaleur, étincelles, flammes, acides et bases fortes. Pour minimiser la dégradation du produit, éviter l'exposition prolongée à l'air. Garder l'emballage hermétiquement fermé quand non utilisé.

Shelf life/Péremption : 36 months/mois

TRANSPORT

Transport par route ADR/RID : UN N° 3082, Class/Classe 9, Packing Group/Groupe d'emballage III

Transport maritime IMDG : UN N° 3082, Class/Classe 9, Packing Group/Groupe d'emballage III

Polluant marin : Yes/Oui

Transport aérien IATA : UN N° 3082, Class/Classe 9, Packing Group/Groupe d'emballage III

COSMETIC REQUIREMENTS & RESTRICTIONS / EXIGENCES & RESTRICTIONS PRODUITS COSMETIQUES

Code of Practice IFRA 48th Amendment: Fragrance and flavor use/Agent parfumant et aromatisant

Allergens/Allergènes: The presence of allergens in the finished product must be indicated by labeling if their concentration exceeds the respective 100 ppm in rinsed products and 10 ppm in a non-rinsed. (7th Amendment European Cosmetic Directive 2003/15/EC)/ La présence de substances allergènes dans un produit fini doit être indiquée par voie d'étiquetage si leur concentration respective dépasse 100 ppm dans un produit rincé et 10 ppm dans un produit non rincé. (7ème amendement Directive Cosmétique Européenne 2003/15/CE)

Citral (neral + geranial) * [60.00...82.00],Géraniol * [1.50...8.00],Linalol * [0.98...1.29],Limonène* [0.50...3.50],Citronellol * [0.10...0.58],Iso eugénol * [0.07...0.43],Eugénol * [0.00...0.01]

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CERTIFICAT ALLERGÈNES COSMETIQUES
COSMETIC ALLERGENS CERTIFICATE

Selon Règlement (CE) n° 1223/2009 du parlement européen et du conseil du 30 novembre 2009 relatif aux produits cosmétiques /
According to Regulation (EC) n°1223/2009 of the European Parliament and the Council of 30 November 2009 on cosmetic products.

Huile essentielle de Lemongrass, Bio, Inde
CYMBOPOGON FLEXUOSUS OIL*

Code article / Article code 10254

SUBSTANCE / SUBSTANCE	NOM INCI /INCI NAME	N°CAS / CAS NUMBER	CONCENTRATION MAXIMALE / MAXIMUM CONCENTRATION (%)	ALLERGENES ETIQUETABLES SI PRODUIT FINI (OUI / NON)
Gamma methyl ionone (3-methyl-4 (2,6,6-trimethyl-2-cyclohexen-1-yl) -3-buten-2-one)	Alpha isomethyl Ionone	127-51-5		
Amyl cinnamal	Amyl Cinnamal	122-40-7		
Amylcinnamyl alcohol	Amylcinnamyl Alcohol	101-85-9		
Anisyl alcohol	Anise Alcohol	105-13-5		
Benzy alcohol	Benzyl Alcohol	100-51-6		
Benzyl benzoate	Benzyl Benzoate	120-51-4		
Benzyl cinnamate	Benzyl Cinnamate	103-41-3		
Salicylate de benzyle	Benzyl Salicylate	118-58-1		
2-methyl-3-(4-1(1,1-dimethylethyl) phenyl)propanal lilial)	Butylphenyl Methylpropional	80-54-6		
Cinnamal	Cinnamal	104-55-2		
Alcool cinnamique	Cinnamyl Alcohol	104-54-1		
Citral (Géranial+Néral)	Citral	5392-40-5	82	
Citronellol	Citronellol	106-22-9	0,58	
Coumarine	Coumarin	91-64-5		
Eugénol	Eugenol	97-53-0	0,01	
Mousse d'arbre	Evernia Furfuracea (Treemoss) extract	90028-67-4		
Mousse de chêne	Evernia Prunasti (Oakmoss)	90028-68-5		
Farnésol	Farnesol	4602-84-0		
Géraniol	Geraniol	106-24-1	8	
Hexyl cinnamaldéhyde	Hexyl cinnamal	101-86-0		
Hydroxycitronellal	Hydroxycitronellal	107-75-5		
Hydroxymethylpenthylcyclohexenec arboxaldehyde (lyral)	Hydroxyisohexyl 3-cyclohexene carboxaldehyde	31906-04-4		
Isoeugénol	Isoeugenol	97-54-1	0,43	
Limonène	Limonene	5989-27-5	3,5	
Linalol	Linalool	78-70-6	1,29	
Methyl heptine carbonate	Methyl 2-octynoate	111-12-6		

**Ingrédient issu de l'Agriculture Biologique*

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CERTIFICATE OF CONFORMITY OF FRAGRANCE MIXTURES WITH IFRA STANDARDS

This certificate assesses the conformity of the fragrance mixture with IFRA Standards and provides restrictions for use as necessary. It is based only on those materials subject to IFRA Standards for the toxicity endpoint(s) described in each Standard.

This certificate does therefore not replace a comprehensive safety assessment of the fragrance mixture.

SCOPE OF THE CERTIFICATE:

Product: Lemongrass (flexuosus) essential oil, Organic, India

Product code: 10254I

Compulsory information:

We certify that the above mixture is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA), up to and including the 49th Amendment to the IFRA Code of Practice (published January, 2020) provided it is used in the following class(es) at a maximum concentration level of:

IFRA Category(ies) [see Table 10 in Guidance for the use of IFRA Standards for details]	Level of use (%)*	Product application
Category 1	0.13414634 %	Lip Products of all types (solid and liquid lipsticks, balms, clear or colored, etc.) Children's toys
Category 2	0.03902439 %	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, deocologne, etc.) Body sprays (including body mist)
Category 3	0.12195122 %	Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturizer Facial make up and foundation Make-up remover for face and eyes Nose pore strips Wipes or refreshing tissues for face, neck, hands, body Body and face paint (for children and adults) Facial masks for face and around the eyes
Category 4	0.73170732 %	Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau de Toilette, Parfum, Cologne, solid perfume, fragrancing cream, aftershaves of all types,

Disclaimer: This Certificate provides restrictions for use of the specified product based only on those materials restricted by IFRA Standards for the toxicity endpoint(s) described in each Standard. This Certificate does not provide certification of a comprehensive safety assessment of all product constituents. This certificate is the responsibility of the fragrance supplier issuing it. It has not been prepared or endorsed by IFRA in anyway.

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		etc.) Fragranced bracelets Ingredients of perfume kits and fragrance mixtures for cosmetic kits Scent pads, foil packs Scent strips for hydroalcoholic products
Category 5A	0.18292683 %	Body creams, oils, lotions of all types Foot care products (creams and powders) Insect repellent (intended to be applied to the skin) All powders and talc (excluding baby powders and talc)
Category 5B	0.18292683 %	Facial toner Facial moisturizers and creams
Category 5C	0.18292683 %	Hand cream Nail care products including cuticle creams, etc. Hand sanitizers
Category 5D	0.06219512 %	Baby cream/lotion, baby oil, baby powders and talc
Category 6	0.42682927 %	Toothpaste Mouthwash, including breath sprays Toothpowder, strips, mouthwash tablets
Category 7A	0.24390244 %	Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse-off hair dyes
Category 7B	0.24390244 %	Hair sprays of all types (pumps, aerosol sprays, etc.) Hair styling aids non sprays (mousse, gels, leave- on conditioners) Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes Shampoo - Dry (waterless shampoo) Hair deodorizer
Category 8	0.06219512 %	Intimate wipes Tampons Baby wipes Toilet paper (wet)
Category 9	1.46341463 %	Bar soap Shampoo of all type Cleanser for face (rinse-off) 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
Category 10A	1.46341463 %	Hand wash laundry detergent (including concentrates) Laundry pre-treatment of all types (e.g.paste, sprays, sticks) Hand dishwashing detergent (including concentrates)

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		Hard surface cleaners of all types (bathroom and kitchen cleansers,furniture polish, etc.) Machine laundry detergents with skin contact (e.g. liquids, powders) including concentrates 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, reed diffusers, pot-pourri, liquid refills for air fresheners (non-cartridge systems), etc. Ironing water (Odorized distilled water)
Category 10B	5.12195122 %	Animal sprays – sprays applied to animals of all types Air freshener sprays, manual, including aerosol and pump Aerosol/spray insecticides
Category 11A	0.06219512 %	Feminine hygiene conventional pads,liners, interlabial pads Diapers (baby and adult) Adult incontinence pant, pad Toilet paper (dry)
Category 11B	0.06219512 %	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 medicaldevice Fertilizers, solid (pellet or powder)
Category 12	100 %	Candles of all types (including encased) Laundry detergents for machine wash with minimal skin contact (e.g. Liquid tabs, pods) Automated 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 (cartridge), 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

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		Joss sticks or incense sticks Dishwash detergent and deodorizers – for machine wash Olfactive board games Paints Plastic articles (excluding toys) Scratch and sniff Scent pack Scent delivery system (using dry air technology) Shoe polishes Rim blocks (Toilet)

**Actual use level or maximum use level*

For other kinds of application or use at higher concentration levels, a new evaluation may be needed; please contact PURUS: office@purus.bg | +359 882 555 500.

Information about presence and concentration of fragrance ingredients subject to IFRA Standards in the fragrance mixture (Lemongrass (flexuosus) essential oil, Organic, India) is as follows:

Materials under the scope of IFRA Standards	CAS-No.	Recommendation from IFRA Standard:	Concentration (%) in fragance mixture or finished product
Isoeugenol	97-54-1 5932-68-3	Restricted	0.43
Citral	106-26-3 141-27-5 5392-40-5	Restricted	82
Citronellol	106-22-9 1117-61-9 141-25-3 26489-01-0 6812-78-8 68916-43-8 7540-51-4	Restricted	0.58
3,7-Dimethyl-3,6-octadienal	55722-59-3 1754-00-3 72203-98-6 72203-97-5	Restricted	2.75
Citronellal	106-23-0 5949-05-3	Restricted	1.62
Geraniol	106-24-1	Restricted	8
Eugenol	97-53-0	Restricted	0.01
Limonene	138-86-3 7705-14-8 5989-27-5 5989-54-8	Specification	3.5
Linalool	126-90-9 126-91-0 78-70-6	Specification	1.29

Disclaimer: This Certificate provides restrictions for use of the specified product based only on those materials restricted by IFRA Standards for the toxicity endpoint(s) described in each Standard. This Certificate does not provide certification of a comprehensive safety assessment of all product constituents. This certificate is the responsibility of the fragrance supplier issuing it. It has not been prepared or endorsed by IFRA in anyway.

Lemongrass (flexuosus) essential oil, Organic, India

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Issue date: 11/23/2020 Version: 1.0

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

1.1. Product identifier

Product form	: Substance
Substance name	: Lemongrass (flexuosus) essential oil, Organic, India
EC-No.	: 295-161-9
CAS-No.	: 8007-02-1
Product code	: 10254I
Type of product	: Essential oil
Product group	: Raw material

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category	: Industrial use
Function or use category	: Perfuming agent, Flavoring agent, Cosmetics

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05 GHS07 GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P391 - Collect spillage.

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : Lemongrass (flexuosus) essential oil, Organic, India

CAS-No. : 8007-02-1

EC-No. : 295-161-9

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Citral (neral + geranial) *	(CAS-No.) 5392-40-5 (EC-No.) 226-394-6 (EC Index-No.) 605-019-00-3 (REACH-no) 01-2119462829-23	50 – 90	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317
Geraniol *	(CAS-No.) 106-24-1 (EC-No.) 203-377-1 (REACH-no) 01-2119552430-49	1 – 10	Skin Sens. 1B, H317 Skin Irrit. 2, H315 Eye Dam. 1, H318
Geranyl acetate	(CAS-No.) 105-87-3 (EC-No.) 203-341-5	0.1 – 10	Skin Sens. 1B, H317 Skin Irrit. 2, H315 Aquatic Chronic 3, H412
Limonene	(CAS-No.) 138-86-3 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7 (REACH-no) 01-2119529223-47	0.1 – 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Trans Beta Caryophyllene	(CAS-No.) 87-44-5 (EC-No.) 201-746-1	0.1 – 5	Asp. Tox. 1, H304 Aquatic Chronic 4, H413 Skin Sens. 1B, H317
Camphene	(CAS-No.) 79-92-5 (EC-No.) 201-234-8	0.1 – 5	Flam. Sol. 2, H228 Eye Irrit. 2, H319 Aquatic Chronic 1, H410
6-Methyl-5-Heptene-2-One	(CAS-No.) 110-93-0 (EC-No.) 203-816-7	0.1 – 5	Flam. Liq. 3, H226
Caryophyllene oxide	(CAS-No.) 1139-30-6 (EC-No.) 214-519-7	0.1 – 5	Aquatic Chronic 2, H411
Citronellal	(CAS-No.) 106-23-0 (EC-No.) 203-376-6	0.1 – 5	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1B, H317
Nonanone 2	(CAS-No.) 821-55-6 (EC-No.) 212-480-0	1 – 5	Eye Irrit. 2, H319 Skin Irrit. 2, H315
Linalool *	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2 (REACH-no) 01-2119474016-42	0.1 – 5	Skin Sens. 1B, H317
Alpha pinene	(CAS-No.) 80-56-8 (EC-No.) 201-291-9 (REACH-no) 01-2119519223-49	0.1 – 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
Cis Isocitral	(CAS-No.) 72203-97-5	0.1 – 1	Skin Sens. 1B, H317 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Alpha terpineol	(CAS-No.) 98-55-5 (EC-No.) 202-680-6	0.1 – 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Citronellol *	(CAS-No.) 106-22-9 (EC-No.) 203-375-0 (REACH-no) 01-2119453995-23	0.1 – 1	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1B, H317

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Cis Beta Ocimene	(CAS-No.) 3338-55-4 (EC-No.) 222-081-3	0.1 – 1	Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Flam. Liq. 3, H226 Skin Irrit. 2, H315
Isoeugénol *	(CAS-No.) 97-54-1 (EC-No.) 202-590-7 (EC Index-No.) 604-094-00-X	< 1	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1A, H317 STOT SE 3, H335
Borneol	(CAS-No.) 507-70-0 (EC-No.) 208-080-0	0.1 – 1	Skin Irrit. 2, H315 Flam. Sol. 1, H228 Aquatic Chronic 2, H411
1,8 Cineole	(CAS-No.) 470-82-6 (EC-No.) 207-431-5	0.1 – 1	Flam. Liq. 3, H226 Skin Sens. 1B, H317
Myrcene	(CAS-No.) 123-35-3 (EC-No.) 204-622-5	0.1 – 1	Asp. Tox. 1, H304 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Flam. Liq. 3, H226 Skin Irrit. 2, H315
Geranyl formate	(CAS-No.) 105-86-2 (EC-No.) 203-339-4	0.1 – 1	Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Skin Sens. 1B, H317
Nerol	(CAS-No.) 106-25-2 (EC-No.) 203-378-7 (REACH-no) 01-2119983244-33	< 1	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
Octanal	(CAS-No.) 124-13-0 (EC-No.) 204-683-8	0.1 – 1	Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Flam. Liq. 3, H226 Skin Irrit. 2, H315
Terpinen-4-ol	(CAS-No.) 562-74-3 (EC-No.) 209-235-5	< 0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Eugenol	(CAS-No.) 97-53-0 (EC-No.) 202-589-1	< 0.1	Eye Irrit. 2, H319 Skin Sens. 1B, H317

Full text of H-statements: see section 16

3.2. Mixtures

Not established.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Mobile and limpid liquid.
Colour	: pale yellow to yellowish brown.
Odour	: Strong, green, reminding citral.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 89 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.885 – 0.905
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

Refractive index : 1.483 – 1.489

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Lemongrass (flexuosus) essential oil, Organic, India (8007-02-1)	
LD50 dermal	3103 mg/kg bodyweight

1,8 Cineole (470-82-6)	
LD50 oral	2480 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))

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Alpha pinene (80-56-8)	
LD50 oral	3700 mg/kg bodyweight
LD50 dermal	> 5000 mg/kg bodyweight

Borneol (507-70-0)	
LD50 oral	2500 mg/kg bodyweight

Alpha terpineol (98-55-5)	
LD50 oral rat	4300 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2900 - 5700
LD50 oral	4300 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 3000 mg/kg OECD 402

Camphene (79-92-5)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: other:rat and mouse
LD50 oral	> 5000 mg/kg bodyweight Animal: mouse
LD50 dermal rat	> 2500 mg/kg bodyweight Animal:
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit
LC50 Inhalation - Rat	> 25 mg/l air Animal:

Cis Beta Ocimene (3338-55-4)	
LD50 oral	5000 mg/kg bodyweight

Cis Isocitral (72203-97-5)	
LD50 oral	3220 mg/kg bodyweight

Citral (neral + geranial) * (5392-40-5)	
LD50 oral rat	≈ 6800 mg/kg bodyweight Animal: rat
LD50 oral	4960 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat
LD50 dermal	2250 mg/kg bodyweight

Citronellal (106-23-0)	
LD50 oral	2500 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	2500 – 5000 mg/kg bodyweight Animal: rabbit
LD50 dermal	2500 mg/kg bodyweight

Citronellol * (106-22-9)	
LD50 oral	3450 mg/kg bodyweight
LD50 dermal	2650 mg/kg bodyweight

Eugenol (97-53-0)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)

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LD50 oral	1500 – 1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)

Geraniol * (106-24-1)	
LD50 oral rat	3600 mg/kg bodyweight Animal: rat, 95% CL: 2840 - 4570
LD50 oral	2100 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit
LD50 dermal	> 5000 mg/kg bodyweight

Isoeugénol * (97-54-1)	
LD50 oral	1500 mg/kg bodyweight
LD50 dermal	1912 mg/kg bodyweight

Linalool * (78-70-6)	
LD50 oral rat	2790 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2440 - 3180
LD50 oral	2790 mg/kg bodyweight
LD50 dermal rabbit	5610 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 3578 - 8374
LD50 dermal	5610 mg/kg bodyweight

Limonene (138-86-3)	
LD50 oral	4400 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight

Nerol (106-25-2)	
LD50 oral	4500 mg/kg bodyweight
LD50 dermal	> 5000 mg/kg bodyweight

Octanal (124-13-0)	
LD50 oral rat	4617 mg/kg bodyweight Animal: rat, Animal sex: male
LD50 dermal rabbit	5207 mg/kg bodyweight Animal: rabbit, Animal sex: male
LC50 Inhalation - Rat	> 0.83 mg/l air Animal: rat, Animal sex: male

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Citral (neral + geranial) * (5392-40-5)	
NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: toxicity (migrated information)

Citronellal (106-23-0)	
NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: toxicity (migrated information)

Оформлението е проверено: 2026

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Geraniol * (106-24-1)	
NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: toxicity (migrated information)

Reproductive toxicity : Not classified

Alpha terpineol (98-55-5)	
NOAEL (animal/male, F0/P)	≥ 750 mg/kg OECD 422
NOAEL (animal/female, F0/P)	≥ 750 mg/kg OECD 422

Octanal (124-13-0)	
NOAEL (animal/female, F0/P)	300 mg/kg bodyweight Animal: rat, Animal sex: female
NOAEL (animal/female, F1)	300 mg/kg bodyweight Animal: rat, Animal sex: female

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

1,8 Cineole (470-82-6)	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:japanese Ministry of Economy Trade and Industry Guideline for 28 day repeat oral dose toxicity study., Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents), Guideline: EPA OPPTS 870.3150 (90-Day Oral Toxicity in Nonrodents)

Alpha terpineol (98-55-5)	
NOAEL (oral, rat, 90 days)	≥ 314 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Citral (neral + geranial) * (5392-40-5)	
LOAEC (inhalation, rat, gas, 90 days)	68 ppm Animal: rat, Animal sex: female
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEC (inhalation, rat, gas, 90 days)	34 ppm Animal: rat, Animal sex: female
NOAEL (subchronic, oral, animal/male, 90 days)	60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Citronellal (106-23-0)	
LOAEC (inhalation, rat, gas, 90 days)	68 ppm Animal: rat, Animal sex: female
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEC (inhalation, rat, gas, 90 days)	34 ppm Animal: rat, Animal sex: female
NOAEL (subchronic, oral, animal/male, 90 days)	60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Citronellol * (106-22-9)	
NOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat, Guideline: other:Specifications for the Conduct of Studies to Evaluate the Toxic and Carcinogenic Potential of Chemical, Biological, and Physical Agents in Laboratory Animals for the National Toxicology Program (NTP)

Eugenol (97-53-0)	
NOAEL (subchronic, oral, animal/male, 90 days)	≥ 900 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: other:OECD Guideline 451 (Carcinogenicity Studies)

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NOAEL (subchronic, oral, animal/female, 90 days)	450 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: other:OECD Guideline 451 (Carcinogenicity Studies)

Geraniol * (106-24-1)	
NOAEL (dermal, rat/rabbit, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: other:OECD Guideline 421 (Reproduction/Developmental Toxicity Screening test), Guideline: other:EPA OPPTS 870.3550 (Reproduction/Developmental Toxicity Screening Test)

Linalool * (78-70-6)	
LOAEL (dermal, rat/rabbit, 90 days)	Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Not rapidly degradable

1,8 Cineole (470-82-6)	
LC50 fish 1	57 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 Daphnia 1	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	> 74 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h algae (1)	> 74 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

Alpha pinene (80-56-8)	
LC50 fish 1	0.28 mg/l
EC50 other aquatic organisms 1	1.44 mg/l waterflea

Alpha terpineol (98-55-5)	
LC50 fish 1	70 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 Daphnia 1	73 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	≈ 68 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h algae (2)	≈ 17 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

Camphene (79-92-5)	
LC50 fish 1	0.72 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 Daphnia 1	0.72 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	1.75 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

Citral (neral + geranial) * (5392-40-5)	
LC50 fish 1	6.78 mg/l Test organisms (species): Leuciscus idus
EC50 Daphnia 1	6.8 mg/l Test organisms (species): Daphnia magna
EC50 other aquatic organisms 1	7 mg/l waterflea

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EC50 other aquatic organisms 2	5 mg/l
EC50 72h algae (1)	103.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Citronellal (106-23-0)	
LC50 fish 1	≈ 22 mg/l Test organisms (species): Leuciscus idus
EC50 Daphnia 1	8.7 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	13.33 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h algae (2)	6.74 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Citronellol * (106-22-9)	
LC50 fish 1	10 mg/l
EC50 Daphnia 1	17.48 mg/l Test organisms (species): Daphnia magna
EC50 other aquatic organisms 1	17.48 mg/l waterflea
EC50 other aquatic organisms 2	2.38 mg/l
EC50 72h algae (1)	2.4 mg/l Test organisms (species):

Eugenol (97-53-0)	
LC50 fish 1	13 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 Daphnia 1	1.05 mg/l Test organisms (species): Daphnia magna

Geraniol * (106-24-1)	
LC50 fish 1	≈ 22 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 Daphnia 1	10.8 mg/l Test organisms (species): Daphnia magna
EC50 other aquatic organisms 1	10.8 mg/l waterflea
EC50 other aquatic organisms 2	13.1 mg/l
EC50 72h algae (1)	13.1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Linalool * (78-70-6)	
LC50 fish 1	27.8 mg/l
EC50 Daphnia 1	59 mg/l Test organisms (species): Daphnia magna
EC50 other aquatic organisms 1	20 mg/l waterflea
EC50 other aquatic organisms 2	88.3 mg/l
EC50 96h algae (1)	88.3 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h algae (2)	156.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Limonene (138-86-3)	
LC50 fish 1	0.72 mg/l
EC50 other aquatic organisms 1	0.36 mg/l waterflea

Octanal (124-13-0)	
EC50 Daphnia 1	1.54 mg/l Test organisms (species): Daphnia magna

12.2. Persistence and degradability

No additional information available

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12.3. Bioaccumulative potential

Alpha pinene (80-56-8)	
Partition coefficient n-octanol/water (Log Pow)	4.32

Citral (neral + geranial) * (5392-40-5)	
Partition coefficient n-octanol/water (Log Pow)	2.8

Citronellol * (106-22-9)	
Partition coefficient n-octanol/water (Log Pow)	3.1

Geraniol * (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	3.5

Linalool * (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.84

Limonene (138-86-3)	
Partition coefficient n-octanol/water (Log Pow)	4.38

Nerol (106-25-2)	
Partition coefficient n-octanol/water (Log Pow)	3.47

12.4. Mobility in soil
No additional information available

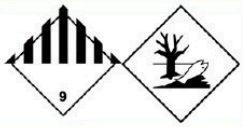
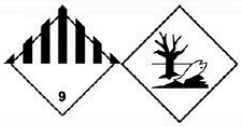
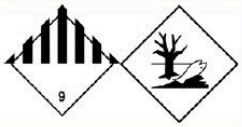
12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information
In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 3082	UN 3082	UN 3082	Not established.	Not established.
14.2. UN proper shipping name				
Not established.	Not established.	Not established.	Not established.	Not established.
Transport document description				
UN 3082, III	UN 3082 , III, MARINE POLLUTANT	UN 3082 , III	Not established.	Not established.
14.3. Transport hazard class(es)				
9	9	9	Not established.	Not established.
			Not established.	Not established.
14.4. Packing group				
III	III	III	Not established.	Not established.

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14.5. Environmental hazards

Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Not established.	Not established.

No supplementary information available

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

Not established.

Rail transport

Not established.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not established.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Lemongrass (flexuosus) essential oil, Organic, India is not on the REACH Candidate List

Lemongrass (flexuosus) essential oil, Organic, India is not on the REACH Annex XIV List

Lemongrass (flexuosus) essential oil, Organic, India is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

Lemongrass (flexuosus) essential oil, Organic, India is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level

Оформлението е проверено: 2026

PURUS document review: 10.11.2026 - technical content unchanged
Document presentation review; originallaboratory and supplierdates retained.

NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 1	Flammable solids, Category 1
Flam. Sol. 2	Flammable solids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Оформлението е проверено: 2026

PURUS document review: 10.11.2026 - technical content unchanged
Document presentation review; originallaboratory and supplierdates retained.

H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Оформлението е проверено: 2026

PURUS

Лимонова трева - GC/MS референтен профил

Cymbopogon flexuosus

ВЪНШНА ПАРТИДА - РЕФЕРЕНЦИЯ ЗА ПРЕГЛЕД

Външен GC/MS образец за сравнение. Не е анализ на партида PURUS и не удостоверява нашата наличност.

Cymbopogon flexuosus, Индия; отделна чужда партида, без доставна връзка.

Параметър	Външен лабораторен образец
Партида	2B
Дата на анализа	14.10.2025
Произход / извличане	India / Steam distilled
Метод	GC/MS; Shimadzu GCMS-QP2010Ultra; ZB-5

15 основни измерени компонента

Компонент	Съдържание, %
Geranial	38.58
Neral	29.52
Geraniol	7.41
Geranyl acetate	4.64
beta-Caryophyllene	1.88
6-Methyl hept-5-en-2-one	1.55
Limonene	1.55
gamma-Cadinene	1.29
4-Nonanone	1.2
Linalool	1.16
Isogeranial	1.11
Camphene	1.03
Isoneral	0.62
Caryophyllene oxide	0.5
delta-Cadinene	0.37

Кратко фактическо резюме, а не копие на лабораторния сертификат. Таблицата не е пълният състав; оригиналният доклад и хроматограмата са запазени в частния източников архив.