

Certificate of Analysis

Contact us at:
info@zdravaprica.com



Product Name: Tea Tree Essential Oil, Organic
Batch No: TTO27WES0923

Analytical Details	Result
Relative density at 20°C	0.8952
Refractive index at 20°C	1.47878
Optical Rotation @ 20°C	9.07

Allergen Declaration

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Product Name: Tea Tree Oil - Organic

Ingredient	CAS	Concentration %
Limonene	5989-27-5	0.84%
Methyl Eugenol	93-15-2	0.01%
Linalool	78-70-6	0.06%
Alpha-Terpinene	99-86-5	10.73%
Gamma-Terpinene	99-85-4	21.06%
Terpinolene	586-62-9	3.93%

IFRA Certificate

Contact us at:
info@zdravaprica.com



Product Name: Tea Tree Oil- Organic

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 endpoints described in each Standard.

This Certificate does therefore not replace a comprehensive Safety assessment of the fragrance mixture.

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 categories at a maximum concentration level of:

Category	Maximum level of use
IFRA Category 1	0.06%
IFRA Category 2	0.23%
IFRA Category 3	0.03%
IFRA Category 4	1.60%
IFRA Category 5A	0.20%
IFRA Category 5B	0.06%
IFRA Category 5C	0.06%
IFRA Category 5D	0.02%
IFRA Category 6	0.14%
IFRA Category 7A	0.06%
IFRA Category 7B	0.06%
IFRA Category 8	0.02%
IFRA Category 9	0.09%
IFRA Category 10A	0.02%
IFRA Category 10B	0.32%
IFRA Category 11A	0.02%
IFRA Category 11B	0.02%
IFRA Category 12	9.70%

ANNEX 1

Below is an extract of information provided by IFRA in relation to types of application present in each IFRA Category. Additional information about IFRA Categories can be found in the Guidance to IFRA Standards, issued by IFRA.

IFRA Category	
IFRA Category 1	Products applied to the lips: Lip products e.g. lipstick, lip balm; Childrens toys
IFRA Category 2	Products applied to the axillae: Deodorant and antiperspirant products of all types; Body sprays/mists
IFRA Category 3	Products applied to the face/body using fingertips: Eye products e.g. eye make-up, eye moisturizer; Facial make-up; Make-up remover; Nose pore strips; Wipes for face, neck, hands, body; Facial masks; Body and face paint
IFRA Category 4	Products related to fine fragrance: Hydroalcoholic and nonhydroalcoholic fine fragrance of all types e.g. Eau de Toilette, Parfum, Cologne, solid perfume, fragancing cream, aftershaves of all types; Ingredients of perfume and fragrance mixtures for cosmetic kits; Scent pads; Scent strips
IFRA Category 5A	Body lotion products applied to the body using the hands (palms), primarily leave on: Foot care products e.g. creams, powders; Insect repellent for application to the skin; All powders and talc (excluding baby powders and talc)
IFRA Category 5B	Face moisturizer products applied to the face using the hands (palms), primarily leave on: Facial toner; Facial moisturizers and creams
IFRA Category 5C	Hand cream products applied to the hands using the hands (palms), primarily leave on: Hand cream; Nail care products including cuticle creams; Hand sanitizers
IFRA Category 5D	Baby creams, baby oils and baby talc: Baby cream/lotion, baby oil, baby powders and talc
IFRA Category 6	Products with oral and lip exposure: Toothpaste; Mouthwash, including breath sprays; Toothpowder, strips, mouthwash Tablets
IFRA Category 7A	Rinse-off products applied to the hair with some hand contact: Hair permanent or other hair chemical treatments (rinse-off) e. g. relaxers, including rinse-off hair dyes
IFRA Category 7B	Leave-on products applied to the hair with some hand contact: Hair sprays of all types e.g. pumps, aerosol sprays; Hair styling aids non sprays e.g. mousse, 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
IFRA Category 8	Products with significant anogenital exposure: Intimate wipes; Tampons; Baby wipes; Toilet paper (wet)

IFRA Category 9	Products with body and hand exposure, primarily rinse off: Bar soap; Liquid soap; Shampoo of all type; Conditioner (rinse-off); Body washes and shower gels of all types; Baby wash, bath, shampoo; Bath gels, foams, mousses, salts, oils and other products added to bathwater; Cleanser for face (rinse-off); Shaving creams of all types e.g. stick, gels, foams; All depilatories (including facial) and waxes for mechanical hair removal; Foot care products (feet are placed in a bath for soaking); Shampoos for pets
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IFRA Category 10A	Household care excluding aerosol / spray products: Hand wash laundry detergent; Laundry pre-treatment of all types e.g. paste, sprays, sticks; Machine laundry detergents with skin contact e.g. liquids, powders; Fabric softeners of all types including fabric softener sheets; Ironing water; Hand dishwashing detergent; Hard surface cleaners of all types e.g. bathroom, kitchen cleansers, furniture polish; Toilet seat wipes; Household cleaning products, other types including fabric cleaners, carpet cleaners, furniture polishes sprays and wipes, stain removers, treatment products for textiles e.g. starch sprays; Floor wax; Dry cleaning kits; Fragranced oil for lamp ring, reed diffusers, pot-pourri, liquid refills for air fresheners (non-cartridge systems), etc.
IFRA Category 10B	Household aerosol/spray products: Animal sprays applied to animals; Air freshener sprays, manual, including aerosol and pump; Aerosol/spray insecticides
IFRA Category 11A	Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate without UV exposure: Feminine hygiene conventional pads, liners, interlabial pads; Diapers (baby and adult); Adult incontinence pant, pad; Toilet paper (dry)
IFRA Category 11B	Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate with potential UV exposure: Tights with moisturizers; Scented socks, gloves; Facial tissues (dry tissues); Napkins; Paper towels; Wheat bags; Facial masks (paper/protective) e.g. surgical masks not used as medical device; Fertilizers, solid (pellet or powder)
IFRA Category 12	Products not intended for direct skin contact, minimal or insignificant transfer to skin: Candles of all types ; Laundry detergents for machine wash with minimal skin contact (e.g. Liquid tabs, pods); Automated air fresheners and fragrancing of all types e.g. concentrated aerosol with metered doses, plugins, electrical, incense, liquid refills (cartridge); Air delivery systems; Cat litter; Cell phone cases; Deodorizers/maskers not intended for skin contact e.g. fabric drying machine deodorizers, carpet powders; Fuels; Insecticides e.g. mosquito coil, paper, electrical, for clothing, excluding aerosols/sprays; Joss sticks or incense sticks; 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)

SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

I. Identification of the substance/ mixture and of the company / undertaking

1.1 Product identifier

INCI NAME: *Melaleuca alternifolia* oil
COMMERCIAL NAME: Tea tree essential oil - organic
CAS: 85085-48-9
EINECS: 285-377-1
REACH registration number: 01-2120743651-57-0005

Processes used for the manufacture of the substance:

Water steam distillation of the leaves and twigs of *Melaleuca alternifolia* and subsequent separation of the water from the essential oil. The subsequent separation is a spontaneous physical process, which normally takes place in a separator (Florentine flask) enabling an easy isolation of the separated oil.

1.2 Relevant identified uses of the substances or mixture and uses advised against

Fragrance and Cosmetic - Do not use during pregnancy or breastfeeding, do not use in children younger than 30 months

1.3 Details on the supplier of the safety data sheet

Healthy Story LLP
27 Old Gloucester Street
London
WC1N 3AX, United Kingdom
Tel: +44 800 048 5030
info@zdravaprica.com

2. Hazards identification

2.1 Classification of the substance or mixture

Flam. Liq. 3, Acute Tox. 4 (oral, inhalation), Asp. Tox. 1, Skin Irrit. 2, Aquatic Chronic 2

2.2 Label elements Signal Word: Hazard Statement:

Danger

H226: Flammable liquids, Hazard Category 3

H302: Acute toxicity (oral), Hazard Category 4

H304: Aspiration hazard, Hazard Category 1

H315: Skin corrosion/ irritation, Hazard Category 2

H332: Acute toxicity (inhalation), Hazard Category 4

H411: Hazardous to the aquatic environment – Chronic Hazard Category 2

Precautionary statement prevention: P210, P233, P240, P241, P242, P243, P261, P264, P270, P280

Precautionary statement response: P301 + P310, P301 + P312, P302 + P352, P303 + P361 + P353, P304 + P340, P331, P332 + P313, P362 + P364, P370 + P378,

P391 Precautionary statement Storage: P403 + P235, P405

Precautionary statement disposal: 501



2.3 Other hazards

Allergens: Limonene, Linalool, Eugenol; CMR: Methyl eugenol

3 Composition/ Information on ingredients:

Substance type: UVCB

Natural Complex Substance (NCS), 100% pure and natural

Name: Alpha-Pinene/**pin-2(3)-ene; IUPAC Names:** 2,6,6-trimethylbicyclo[3.1.1]hept-2-ene; 1 to 4%

SMILES: CC1=CCC2CC1C2(C)C

Molecular Formula: C₁₀ H₁₆



EC number: 201-291-9

CAS number: 80-56-8

Signal word: Danger

Flam. Liq. 3, Acute Tox. 4, Asp. Tox. 1, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1

H226, H302, H304, H315, H317, H400, H410

P210, P233, P240, P241, P242, P243, P264, P261, P271, P272, P273, P280

P301 + P310, P302 + P352, P303 + P361 + P353, P304 + P340, P312, P333 + P313, P331, P362, P363, P370 + P378, P391

P403 + P235, P405

P501

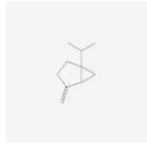


Name: Sabinene/thuj-4(10)-ene; IUPAC name: 4- methylidene-1propan-2ylbicylol [3.1.0]hexane:

<3.5%

SMILES: CC(C)C12CCC(=C)C1C2

Molecular formula: C₁₀H₁₆



EC number: 222-212-4

CAS number: 3387-41-5

Signal word: Warning

Acute Tox. 4

H302

P264, P270

P301 + P312, P330

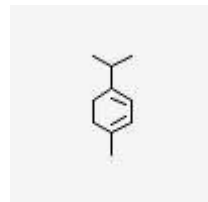
P501



Name: Alpha-Terpinene/p-mentha-1,3-diene; IUPAC name: 1-isopropyl-4-methylcyclohexa-1,3-diene:
6 to 12%

SMILES: CC1=CC=C(CC1)C(C)C

Molecular formula: C₁₀ H₁₆



EC number: 202-795-1

CAS number: 99-86-5

Signal words: Warning

Flam. Liq. 3, Acute Tox. 4 (oral), Skin Sense 1B, Eye Irrit. 2

H226, H302, H317, H319

P210, P233, P240, P241, P242, P243, P261, P264, P270, P272, P280

P301 + P312, P302 + P352, P303 + P361 + P353, P305 + P351 + P338, P321, P330, P333 + P313, P337 + P313, P363, P370 + P378

P403 + P233

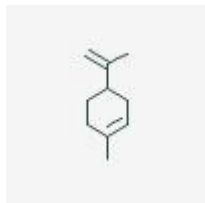
P501



Name: Limonene/dipentene; IUPAC name: 4-isopropenyl-1-methylcyclohexene; 0.5 to 1.5%

SMILES: CC1=CCC(CC1)C=C

Molecular Formula: C₁₀ H₁₆



EC numbers: 205-341-0

CAS numbers: 138-86-3

Signal word: Warning

Flam Liq. 3, Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 1

H226, H315, H317, H410

P210, P233, P240, P241, P242, P243, P261, P264, P272, P273, P280

P302 + P352, P303 + P361 + P353, P333 + P313, P362, P363, P370 + P378, P391

P403 + P235

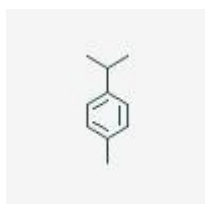
P501



Name: Para-Cymene; IUPAC name: 1-isopropyl-4-methylbenzene; 0.5 to 8%

SMILES: CC1=CC=C(C=C1)C(C)C

Molecular formula: C₁₀ H₁₄



EC number: 202-796-7

CAS number: 99-87-6

Signal word: Danger

Flam. Liq. 3, Asp. Tox. 1, Skin Irrit. 2, Eye Irrit. 2

H226, H304, H315, H319

P210, P233, P240, P241, P242, P243, P264, P280

P301 + P310, P302 + P352, P303 + P361 + P353, P305 + P351 + P338, P331, P321, P332 + P313, P337 + P313, P362, P370 + P378

P403 + P235, P405

P501



Name: 1,8-Cineole (Eucalyptol); IUPAC name: 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane; 0 to 10%

SMILES: CC1(C2CCC(O1)(CC2)C)C

Molecular formula: C₁₀ H₁₈ O



EC number: 207-431-5

CAS number: 470-82-6

Signal word: Warning

Flam. Liq. 3, Skin Sens. 1

H226, H317

P210, P233, P240, P241, P242, P243, P261, P272, P280

P303 + P361 + P353, P370 + P378, P302 + P352, P333 + P313, P363

P403 + P235

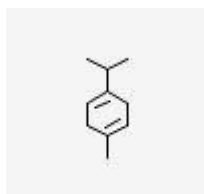
P501



Name: Gamma - Terpinene /p-mentha-1,4-diene; IUPAC name: 1-isopropyl-4-methylcyclohexa-1,4-diene; 14 to 28%

SMILES: CC1=CCC(=CC1)C(C)C

Molecular Formula: C₁₀ H₁₆



EC number: 202-794-6

CAS number: 99-85-4

Signal word: Warning

Flam. Liq. 3, Asp. Tox. 1

H226, H304

P210, P233, P240, P241, P242, P243, P280

P301 + P310, P303 + P361 + P353, P331, P370 + P378

P403 + P235, P405

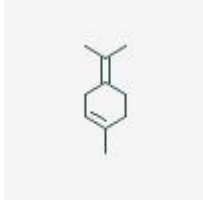
P501



Name: Terpinolene/p-mentha-1,4(8)-diene; IUPAC name: 4-isopropylidene-1-methylcyclohexene; 1.5 to 5%

SMILES: C/C(C)=C1CCC(C)=CC/1

Molecular Formula: C10 H16



EC number: 209-578-0

CAS number: 586-62-9

Signal word: Danger

Asp. Tox. 1, Skin Sense. 1, Aquatic Acute 1, Aquatic Chronic 1

H304, H317, H400, H410

P261, P272, P273, P280

P301 + P310, P302 + P352, P331, P333 + P313, P363, P391

P405

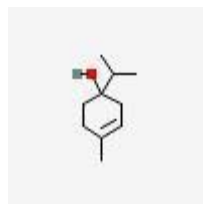
P501



Name: Terpinen-4-ol/p-menth-1-en-4-ol; IUPAC name: 1-isopropyl-4-methylcyclohex-3-en-1-ol; 35 to 48%

SMILES: CC1=CCC(CC1)(C(C)C)O

Molecular Formula: C10 H18 O



EC number: 209-235-5

CAS number: 562-74-3

Signal words: Warning

Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT Single Exp. 3

H302, H315, H317, H319, H336

P261, P264, P270, P271, P272, P280

P301 + P312, P302+P352, P301+P330+P331, P303+P361+P353, P304+P340, P305+P351+P338, P310, P312, P321, P330, P337+P313, P333+P313, P321, P403+P233, P363, P405

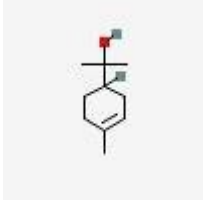
P501



Name: Alpha-Terpineol/p-ment-1-en-8-ol; IUPAC name: 2-(4-methyl-1-cyclohex-3-enyl)propan-2-ol; 2 to 5%

SMILES: CC1=CCC(CC1)C(C)(C)O/ CC(=C1CCC(CC1)(C)O)C

Molecular Formula: C₁₀ H₁₈ O



EC number: 202-680-6

CAS number: 98-55-5

Signal word: Warning

Skin Irrit. 2, Eye Irrit. 2

H315, H319

P264, P280

P302 + P352, P305 + P351 + P338, P321, P332 + P313, P337 + P313, P362



Name: Aromadendrene/trimethyl-4-methylene-1H-cycloprop[e]azulene; IUPAC name: 1,1,7-trimethyl-4-methylenedecahydro-1H-cyclopropa[e]azulene; 0.2 to 3%

SMILES: CC1CCC2C1C3C(C3(C)C)CCC2=C

Molecular Formula: C₁₅ H₂₄



EC number: 207-694-6

CAS number: 489-39-4

Signal word: Warning

Asp. Tox. 1

H304

P301 + P310, P331

P405

P501



Name: Ledene (Viridiflorene); IUPAC name: 1,1,4,7-tetramethyl-1a,2,3,5,6,7,7a,7b-octahydro-1H-cyclopropa[e]azulene; 0.1 to 3%

SMILES: CC1CCC2=C(CCC3C(C12)C3(C)C)C

Molecular Formula: C₁₅ H₂₄



EC number: 244-565-3

CAS number: 21747-46-6

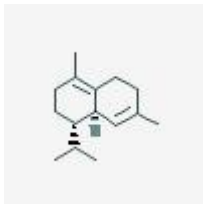
Signal word: n.a.

No data available.

Name: Delta-Cadinene; IUPAC name: (1S,8aR)-4,7-dimethyl-1-(propan-2-yl)-1,2,3,5,6,8a-hexahydronaphthalene; 0.2 to 3%

SMILES: CC1=CC2C(CCC(=C2CC1)C)C(C)C

Molecular Formula: C₁₅ H₂₄



EC number: n.a.

CAS number: 483-76-1

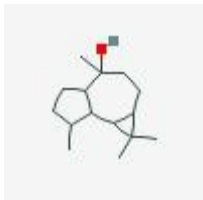
Signal word: n.a.

No data available.

Name: Globulol/dro-1,1,4,7-tetramethyl-1H-cyclopropa[e]azulen-4-ol; IUPAC name: 1,1,4,7-tetramethyldecahydro-1H-cyclopropa[e]azulen-4-ol; 0 to 1%

SMILES: CC1CCC2C1C3C(C3(C)C)CCC2(C)O

Molecular Formula: C₁₅ H₂₆ O



EC number: 207-696-7

CAS number: 489-41-8

Signal word: n.a.

No data available.

Name: Viridiflorol/ dro-1,1,4,7-tetramethyl-1H-cycloprop[e]azulen-4-ol; IUPAC name: 1,1,3,6-tetramethyldecahydro-1H-cyclopropa[e]azulen-6-ol; 0 to 1%

SMILES: CC1CCC2C1C3C(C3(C)C)CCC2(C)O

Molecular Formula: C15 H26 O



EC number: 209-003-3

CAS number: 552-02-3

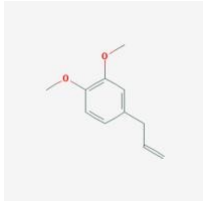
Signal word: n.a.

No data available.

Name: Methyl eugenol; IUPAC name: 1,2-dimethoxy-4-(prop-2-en-1-yl) benzene; < 0.1%

SMILES: COC1=C(C=C(C=C1)CC=C)OC

Molecular formula: C11 H14 O2



EC number: [202-223-0](#)

CAS number: 93-15-2

Signal word: Warning

Acute Tox. 4, Skin Sens. 1, Muta. 2, Carc. 2

H302, H317, H341, H351

P201, P202, P361, P264, P270, P272, P280, P281

P301 + P312, P302 + P352, P308 + P313, P321, P330, P333 + P313, P363

P405

P501



Contains no other ingredients that are classified according to the current state of knowledge and that contribute to the classification of the substance and that must therefore be mentioned in this section.

4. First aid measures

4.1. Description of first aid measures

IN THE EVENT OF EXCESSIVE INHALATION: remove the individual to fresh air and keep at rest. Obtain medical advice immediately.

IN THE EVENT OF SKIN CONTACT: wash with plenty of soap and water, take off contaminated clothing and wash before reuse. If skin irritation occurs get medical advice/ attention. If skin irritation or rash occurs get medical advice/ attention.

IN THE EVENT OF EYE CONTACT: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/ attention.

IN THE EVENT OF INGESTION: rinse mouth with water and get medical advice. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Individuals contaminated by chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention if necessary. Take a copy of the label and SDS to the health professional with contaminated individual.

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

The most important known symptoms and effects are described in the labeling of the product (Section 2) and / or in section 11.

Symptoms caused by exposure:

- Human adult: Hallucination, distorted perception, coma, diarrhoea, allergic dermatitis.
- Human child: Hallucination, distorted perception, sleep, ataxia, coma, somnolence, diarrhoea.

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

Medical attention and special treatment:

- **Skin contact:** Wash contacted area thoroughly with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Seek medical attention if irritation develops.
- **Inhalation:** If fumes or vapours are inhaled, or breathing difficulty is experienced, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek immediate medical attention if breathing difficulty persists.
- **Ingestion:** If the chemical is swallowed, call a physician or poison control centre for the most current information. If no professional advice is available, DO NOT induce vomiting, rinse the mouth. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions or who cannot swallow. Victims of chemical exposure must be taken for medical attention. Take a copy of the label and SDS with the victim to a health professional.

Medical conditions aggravated by exposure: Pre-existing skin, eye or respiratory problems may be aggravated by prolonged contact.

Recommendation to physicians: Treat symptoms and eliminate exposure.

5. Firefighting measures

5.1 Extinguishing media

Suitable fire extinguishing materials: Carbon dioxide, foam, dry chemical, halon or water fog/mist.

Unsuitable fire extinguishing materials: Do not use full water jet.

5.2 Special hazards arising from the substance or the mixture

May produce toxic fumes of carbon monoxide and/or carbon dioxide and hydrocarbons if burning.

5.3 Advice for fire fighters

Special fire fighting procedures: Incipient fire responders should wear eye protection. Structural fire fighters must wear self-contained breathing apparatus and full protective equipment. Isolate material not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise keep containers cool with carefully applied water spray/mist. If possible, prevent runoff water from entering storm drains, bodies of water or other environmentally sensitive areas.

Closed containers may build up pressure under elevated temperatures. If possible, containers should be cooled with a water spray.

6. Accidental release measures

6.1 Personal precaution, protective equipment and emergency procedures

Proper protective equipment should be used (see 'Exposure controls / personal protection').

Personnel should be trained for spill response operations.

Prevent contact with eyes and skin. Wear eye shields or protective clothing.

Avoid inhalation of vapours

Keep away from open fire or other sources of ignition

Emergency procedures: Trained personnel following pre-planned procedures should handle non-incident releases.

6.2 Environmental precautions

Prevent run-off into drains and waterways. Decontaminate area thoroughly. Do not mix with wastes from other materials. Dispose of in accordance with applicable national and local procedures (see 'Disposal considerations').

6.3 Methods and material for containment and cleaning up

Spill containment / cleanup: Contain spilled material using sand or suitable hydrocarbon absorbent material. Avoid generating mists or sprays. Place all spill residues in an appropriate container and seal. Ventilate area and wash spill area after material pickup is complete. Remove to an approved disposal container.

6.4 Reference to other sections:

See section 8 and 13.

7. Handling and storage

7.1 Precautions for safe handling

Work practices and hygiene practices: Read all labels before use.

As with all chemicals; avoid getting this product on you or in you.

Wear personal protective equipment (see 'Exposure controls / personal protection') and wash thoroughly after handling this product.

Do not eat, drink, smoke or apply cosmetics while handling this product.

Avoid breathing mists or sprays generated by this product.

Use in a well ventilated location.

Remove contaminated clothing immediately.

To avoid fire hazards, products should not be heated with or exposed to open flames or other sources of ignition.

7.2 Storage

Storage and handling practices: Observe national and local regulations pertaining to the storage and handling of flammable liquids.

Store in a cool, dry, well ventilated area away from direct sunlight.

Keep containers tightly closed when not in use.

Store away from sources of heat or ignition (sparks, open flame, hot surfaces).

Store away from incompatible materials (oxidising agents and acids).

Inspect regularly for damage and leaks.

Take precautionary measures against static discharge: Ground container and receiving equipment, use only non-sparking tools and use explosion-proof electrical and other equipment. Drums should be kept in banded storage.

Recommended packaging: lacquer lined container, glass

Packaging materials to be avoided: iron

7.3 Specific end use

Comply with regulations and specifications of the product. No specific recommendations. Apply the rules of handling above.

8. Exposure controls/ Personal protection

8.1 Control parameters

Ventilation and engineering controls: Currently, international exposure limits are not established for the components of this product. Please check with a competent authority in each country for the most recently established limits.

Use with adequate ventilation to ensure exposure levels are maintained below the limits.

8.2 Exposure controls

Eye/ face protection: Splash goggles or safety glasses with side shields are recommended. If necessary, refer to the European Standard EN 166.

Hand protection: Compatible protective gloves are recommended. Wash hands after removing gloves. If necessary, refer to the European Standard DIN EN 374.

Body protection: Use body protection appropriate to the task. Coveralls, rubber aprons or chemical protective clothing made from natural rubber are generally acceptable depending on the task. If a hazard of injury to the feet exists due to falling objects, rolling objects or where objects may pierce the soles of the feet or where an employee's feet may be exposed to electrical hazards, use appropriate foot protection. If necessary, refer to the relevant European Standards.

Respiratory protection: Ensure adequate ventilation. If exposure limits are exceeded, use only authorised respiratory protection. Refer to European Standard EN 149.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties (a) Appearance:

Physical state:	liquid
Colour:	colourless to pale yellow
(b) Odour:	characteristic
(c) Odour threshold:	not determined
(d) pH:	not determined
(e) Melting point/freezing point:	- 22°C
(f) Initial boiling point and boiling range:	not determined
(g) Flash point:	+54°C
(h) Evaporation rate:	not determined
(i) Flammability (solid, gas):	not determined
(j) Upper/lower flammability or explosive limits:	not determined
(k) Vapour pressure at 25°C:	2100Pa
(l) Vapour density:	not determined
m) Relative density at 20°C:	0.885 to 0.906
(n) Solubility (ies):	insoluble in water, liposoluble
(o) Partition coefficient: n-octanol/water:	2510 to 314000 (log ₁₀ Pow = 3.4 to 5.5)
(p) Auto-ignition temperature:	252 °C
(q) Decomposition temperature:	not determined
(r) Viscosity:	not determined
(s) Explosive properties:	not determined
(t) Oxidising properties:	not determined

9.2 Other information

No data available

10. Stability and reactivity

10.1 Reactivity:	None known.
10.2 Chemical stability:	Stable under ordinary conditions of use and storage.
10.3 Possibility of hazardous reactions:	no data available
10.4 Conditions to avoid:	Excessive heat, sparks, flames and other sources of ignition.

- 10.5 Incompatible materials:** Strong oxidising or reducing agents. Protect from air.
- 10.6 Hazardous decomposition products:** When heated, decomposition may produce hydrocarbons, CO and/or CO₂.
- 10.7 Hazardous depolymerisation:** Will not occur.

11. Toxicological information

Information on toxicological effects

- (a) Acute toxicity:** Acute Oral toxicity: LD50 of 1.9 mL/kg bw
Acute Inhalation toxicity: LC50 of 4.29 mg/L
Acute Dermal toxicity: LD50 of > 2000 mg/kg bw
- (b) Skin corrosion/irritation:** adverse effect observed (irritating)
- (c) Serious eye damage/irritation:** no data available
- (d) Respiratory or skin sensitisation:** no adverse effect observed (not sensitising)
- (e) Germ cell mutagenicity:** no data available
- (f) Carcinogenicity:** no data available
- (g) Reproductive toxicity:** adverse effect observed: NOAEL 20 mg/kg bw/day
- (h) STOT-single exposure:** no data available
- (i) STOT-repeated exposure:** no adverse effect observed
- (j) Aspiration hazard:** aspiration toxicity cannot be excluded

Information on likely routes of exposure: no data available

Symptoms related to the physical, chemical and toxicological characteristics: no data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure: no data available

Interactive effects: no data available

11.2 Other information on toxicological effects: no data available

12. Ecological information

- 12.1. Toxicity:** LC50 for freshwater fish: 7.75 mg/L
- EC50/LC50 for freshwater invertebrates: 13.6 mg/L
EC50/LC50 for freshwater algae: 35.9 mg/L
EC10, LC10 or NOEC for freshwater algae: 29.9 mg/L
- 12.2. Persistence and degradability:** readily biodegradable
- 12.3. Bioaccumulative potential:** no data available
- 12.4. Mobility in soil:** no data available

12.5. Results of PBT and vPvB assessment: no data available

12.6. Other adverse effects: no data available

13. Disposal considerations

13.1. Waste treatment methods:

Preparing waste for disposal: Waste disposal must be in accordance with the appropriate national and local regulations.

Disposal methods: Dispose of containers and small amounts at an approved landfill site. For larger quantities contact a licensed professional waste disposal service.

Precautions: Prevent contamination of drains and/or waterways.

14. Transport information

14.1 UN number: UN 1169

14.2. UN proper shipping name: extracts, aromatic, liquid

14.3. Transport hazard class (es): 3

14.4. Packing group: III

14.5. Environmental hazards: Hazardous to the aquatic environment –Chronic hazard,
Category 2, marine pollutant: yes

14.6. Special precautions for user: Store in closed containers, away from heat sources, air
or light and protected from extremes of temperature.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: not concerned

15. Regulatory information

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

This SDS was written in accordance with Regulation (EC) No. 1907/2006 and its adaptations, modified by Regulation (EU) n°521/2019.

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for the tonnage band 1 to 10.

16. Other information

This safety data sheet completes the specification sheet but does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product. However, we cannot accept responsibility or liability for any consequences arising from its use.

We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned.

It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.

Indication of changes: New safety data sheet in accordance with EC 521/2019

Legend to abbreviations and acronyms used:

EC: European Community

INCI: International Nomenclature of Cosmetic Ingredients

CAS: Chemical Abstract Service

EINECS: European Inventory of Existing Commercial Chemical Substance

Irrit.: irritation

Sens.: sensitisation

Tox.: toxicity

pH: potential Hydrogen

STOT: Specific Target Organ Toxicant

PBT: persistent bio accumulative toxic chemical

vPvB: very Persistent very Bio accumulative chemical

UN: United Nations

Bibliography:

List of relevant hazard statements, safety phrases and/or precautionary statements:

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.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

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.

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/.../ equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264: wash hands thoroughly after handling

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: avoid release to the environment

P280: wear protective gloves/ protective clothing/ eye protection/ face protection

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P352: IF ON SKIN: wash with plenty of soap and water

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

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

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P321: specific treatment (see on this label)

P330: Rinse mouth.

P331: Do NOT induce vomiting. Wash contaminated clothing before reuse.

P332 + P313: if skin irritation occurs: get medical advice/ attention

P333 + P313: if skin irritation or rash occurs: get medical advice/ attention

P337 + P313: if eye irritation persists: get medical advice/ attention

P362: take off contaminated clothing and wash before reuse

P363: Wash contaminated clothing before reuse.

P370 + P378: In case of fire: Use ... for extinction.

P391: Collect spillage.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P403 + P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

P501: dispose of contents/ container in accordance with local/ regional/ national/ international regulation.