

Product code /Code du produit :N945F

Product name /Nom commercial :

VETIVER MADAGASCAR ORG OIL FFL / VETYVER racine HE BIO NOP FFL

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 % Maximale d'utilisation |
|-----|---|--|
| 1 * | Products applied to the lips /Produits appliqués sur les lèvres | 0,912 |
| 2 | Products applied to the axillae /Produits appliqués sur les aisselles | 0,912 |
| 3 | Products applied to the face/body using fingertips /Produits appliqués sur le visage/corps du bout des doigts | 0,912 |
| 4 | Products related to fine fragrance /Produits liés à la Parfumerie fine | 0,912 |
| 5A | Body lotion products applied to the body using the hands (palms), primarily leave on / <small>Produits de lotion pour le corps appliqués sur le corps à l'aide des mains (paumes), principalement non rincés</small> | 0,912 |
| | Face moisturizer products applied to the face using the hands (palms), primarily leave on / | |
| 5B | <small>Produits hydratants pour le visage appliqués sur le visage à l'aide des mains (paumes), principalement non rincés</small> Hand cream products applied to the hands using the hands (palms), primarily leave on / | 0,912 |
| 5C | <small>Produits de crème pour les mains appliqués sur les mains en utilisant les mains (paumes), principalement non rincés</small> Baby Creams, baby Oils and baby talc /Crème pour bébé, huiles pour bébé et talc pour bébé | 0,912 |
| 5D | Products with oral and lip exposure /Produits avec exposition orale et labiale | 0,912 |
| 6 * | Rinse-off products applied to the hair with some hand contact / | 0,912 |
| 7A | <small>Produits rincés appliqués sur les cheveux avec un certain contact avec les mains</small> Leave-on products applied to the hair with some hand contact / <small>Produits non rincés appliqués sur les cheveux avec un certain contact avec les mains</small> | 0,912 |
| 7B | Products with significant anogenital exposure /Produits à exposition anogénitale importante Products with body and hand exposure, primarily rinse off /Produits corps et mains, principalement rincés | 0,912 |
| 8 | Household care products with mostly hand contact: Household care excluding aerosol/spray products / | 0,912 |
| 9 | <small>Produits d'entretien ménager avec contact principalement avec les mains à l'exclusion des produits aérosols et sprays</small> | 0,912 |
| 10A | Household care products with mostly hand contact: Household aerosol/spray products / <small>Produits d'entretien ménager avec contact principalement avec les mains : produits aérosols et sprays</small> | 0,912 |
| 10B | Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate without UV exposure / <small>Produits avec contact cutané prévu mais transfert minimal de parfum sur la peau sans exposition aux UV</small> Products with intended skin contact but min. transfer of fragrance to skin from inert substrate with potential UV exposure / | 0,912 |
| 11A | <small>Produits avec contact cutané prévu mais transfert minimal de parfum sur la peau avec exposition aux UV</small> Products not intended for direct skin contact, minimal or insignificant transfer to skin / | 0,912 |
| 11B | <small>Produits non destinés à un contact direct avec la peau</small> | 45,620 |
| 12 | | |
| * | | |

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%).

2822001

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

1.1 Product identifier

- Trade name:
VETIVER MADAGASCAR ORG OIL FFL
- Article number:
N 945F
- CAS Number:
8016-96-4
- EC Number:
282-490-8
- No CAS EINECS:
84238-29-9

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

1.4 Emergency telephone number:

SECTION 02: Hazards identification

2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.
 Eye Irrit. 2 - H319 Causes serious eye irritation.
 Skin Sens. 1 - H317 May cause an allergic skin reaction.



GHS09

Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

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



GHS07

GHS09

- Signal word

Warning

- Hazard statements

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H411 Toxic to aquatic life with long lasting effects.

- Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

(continued on page 2)

2822001

Reviewed on: 28.01.2025
Printing date: 28.01.2025

PRODUCT : VETIVER MADAGASCAR ORG OIL FFL

(continued of page 1)

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 | % |
|--------------------|---|---------------------|
| 8016-96-4 | Chrysopogon zizanioides (L.) Roberty (Syn : Vetiveriazizanioides (L.) Nash) | |
| | • Identification number(s) | |
| | • EC number: 282-490-8 | |
| | • Dangerous components: | |
| CAS Number | | % |
| 15764-04-2 | alpha-Vetivone EC number: 239-855-1 ⚠ Skin Sens. 1B - H317 | 5,001-10,00 |
| * 4630-07-3 | Valencene EC number: 225-047-6 ⚠ Asp. Tox. 1 - H304 | 1,001- 5,000 |
| * 87-44-5 | BET A-CARY OPHY LLENE EC number: 201- 746-1 ⚠ Asp. Tox. 1 - H304; ⚠ Skin Sens. 1B - H317 | 0,101-1,000 |
| * 97-54-1 | ISOEUGENOL EC number: 202-590-7 ⚠ Acute Tox. 4 - H302, Acute Tox. 4 - H312, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1A - H317; Skin Sens. 1A; H317: C >= 0,01 % | 0,101-1,000 |
| * 469-61-4 | alpha-Cedrene EC number: 207-418-4 ⚠ Asp. Tox. 1 - H304; ⚠ Aquatic Acute 1 - H400 (M=10), Aquatic Chronic 1 - H410 (M=10) | 0,101-1,000 |
| * 98-01-1 | 2-furaldehyde EC number: 202-627-7 ⚠ Acute Tox. 3 - H301, Acute Tox. 2 - H330; ⚠ Flam. Liq. 3 - H226; ⚠ Acute Tox. 4 - H312, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, STOT SE 3 - H335; ⚠ Carc. 2 - H351; Aquatic Chronic 3 - H412 | 0,101-1,000 |

EU

(continued on page 3)

2822001

Reviewed on: 28.01.2025
 Printing date: 28.01.2025

PRODUCT : VETIVER MADAGASCAR ORG OIL FFL

(continued of page 2)

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.
Immediately rinse with water.
- 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.

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.

EU

(continued on page 4)

2822001

Reviewed on: 28.01.2025
 Printing date: 28.01.2025

PRODUCT : VETIVER MADAGASCAR ORG OIL FFL

(continued of page 3)

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.
 Prevent formation of aerosols.
 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.
 Do not inhale gases / fumes / aerosols.
 Do not inhale dust / smoke / mist.
 Avoid contact with the eyes.
- Respiratory protection:
 Use suitable respiratory protective device in case of insufficient ventilation.
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- 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.
- Eye/face protection
 Safety glasses
 Safety glasses
- Body protection:
 Impervious protective clothing
 Boots

EU

(continued on page 5)

2822001

Reviewed on: 28.01.2025
 Printing date: 28.01.2025

PRODUCT : VETIVER MADAGASCAR ORG OIL FFL

(continued of page 4)

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information Physical state

| | | |
|---|-----------------|---------------|
| Colour: | Fluid | amber- |
| Odour: | brown | woody |
| Odour threshold: | Not | |
| Boiling point or initial boiling point and boiling range | Not determined. | |
| Flammability | determined. | |
| Lower and upper explosion limit | Not | |
| Lower: | determined. | |
| Upper: | Not determined. | |
| Flash point: | Not determined. | |
| Decomposition temperature: | Not determined. | |
| pH | Not determined. | |
| Viscosity: | Not determined. | |
| Kinematic viscosity | >= 100,0 °C | NFT 60-103 CC |
| Dynamic: | Not determined. | |
| Solubility | Not determined. | |

| | | |
|---|-----------------|--|
| water: | Not determined. | |
| Partition coefficient n-octanol/water (log v alue) | Not determined. | |
| Vapour pressure: | Not determined. | |
| Density and/or relative density | Not determined. | |
| Density: | Not determined. | |
| Relative density | Not determined. | |
| Vapour density | Not determined. | |

9.2 Other information

| | |
|--------------------|---------------------|
| Appearance: | Not determined. |
| Form: | 0,9900 1,050 D20/20 |
| | Not determined. |

No further relevant information available.

viscous

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 | not applicable |
| Flammable solids | not applicable |
| 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 |

(continued on page 6)

2822001

Reviewed on: 28.01.2025
 Printing date: 28.01.2025

PRODUCT : VETIVER MADAGASCAR ORG OIL FFL

(continued of page 5)

| | |
|--------------------------------|------------|
| Oxidising liquids | not |
| Oxidising solids | applicable |
| Organic peroxides | not |
| Corrosive to metals | applicable |
| Desensitised explosives | not |
| | applicable |

SECTION 10: Stability and reactivity

- 10.1 Reactivity applicable
 - No further relevant information available.
 - 10.2 Chemical stability not
 - 10.3 Possibility of hazardous reactions applicable
 - No dangerous reactions known.
 - 10.4 Conditions to avoid not
 - No further relevant information available.
 - 10.5 Incompatible materials: applicable
 - No further relevant information available.
 - 10.6 Hazardous decomposition products: not
- 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

8016-96-4 **Chrysopogon zizanioides (L.) Roberty (Syn : Vetiveriazizanioides(L.) Nash)**

Oral, LD50: >=5000 mg/kg (rat)
 Dermal, LD50: >=5000 mg/kg (Rabbit)

87-44-5 **BET A-CARY OPHY LLENE**

Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)

* **97-54-1** **ISOEUGENOL**

Oral, LD50: 1560 mg/kg (rat)

* **98-01-1** **2-furaldehyde**

Oral, LD50: 65 mg/kg (rat)

- Primary irritant effect:
- Skin corrosion/irritation
 - Irritant to skin and mucous membranes.
 - Causes skin irritation.
- Serious eye damage/irritation
 - Irritating effect.
 - Causes serious eye irritation.
- Respiratory or skin sensitisation
 - Sensitization possible through skin contact.
- Germ cell mutagenicity

87-44-5 **BET A-CARY OPHY LLENE**

OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989)

- Carcinogenicity
 - Not determined.
- Reproductive toxicity
 - Not determined.
- STOT-single exposure
 - Not determined.
- STOT-repeated exposure
 - Not determined.
- Aspiration hazard

(continued on page 7)

2822001

Reviewed on: 28.01.2025
 Printing date: 28.01.2025

PRODUCT : VETIVER MADAGASCAR ORG OIL FFL

(continued of page 6)

- * Not determined.
- * • Subacute to chronic toxicity:
- * • Not determined
- * • Information on other hazards
- * • Endocrine disrupting properties
- * None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

- Aquatic toxicity:
- 8016-96-4 Chrysopogon zizanioides (L.) Roberty (Syn :
 Vetiveriazizanioides (L.) Nash)
 CE50/48h: 11,6 mg/l (daphnia)
- 469-61-4 alpha-Cedrene
 LD50: 0,099 mg/l (daphnia)

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.
- vPvB:
 Not applicable.
- 12.6 Endocrine disrupting properties
 The product does not contain substances with endocrine disrupting properties.

12.6 Other adverse effects

- No further relevant information available.
- Ecotoxicological effects:
 Not determined.
- Remark:
 Toxic for fish
- * • Additional ecological information:
- * • General notes:
 Toxic for aquatic organisms
- * 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.

EU

(continued on page 8)

2822001

Reviewed on: 28.01.2025
 Printing date: 28.01.2025

PRODUCT : VETIVER MADAGASCAR ORG OIL FFL

(continued of page 7)

SECTION 14: Transport information

- 14.1 UN number or IDnumber
 . **ADR . IMDG . IATA** Not classified
- 14.2 UN proper shipping name Not classified
 . **ADR** Not classified
 . **IMDG**
 . **IATA** Not classified
 Not classified
- 14.3 Transport hazard class(es) Not classified
 . **ADR**
 . **Class**
 . **IMDG** Not classified
 . **Class**
 . **IATA** Not classified
 . **Class**
 Not classified
- 14.4 Packing group
 . **ADR** Not classified
 . **IMDG** Not classified
 . **IATA** Not classified
- 14.5 Environmental hazards:
 Not applicable.
- 14.6 Special precautions for user
 Not applicable.
- 14.7 Maritime transport in bulk according to IMO instruments
 Not applicable.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- * • DIRECTION 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
 - * • 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 0,10
 - * • Water hazard class:
 * Generally not hazardous for water.
- 15.2 Chemical safety assessment:
 A Chemical Safety Assessment has not been carried out.

EU

(continued on page 9)

2822001

Reviewed on: 28.01.2025
 Printing date: 28.01.2025

PRODUCT : VETIVER MADAGASCAR ORG OIL FFL

(continued of page 8)

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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.
- * H301 Toxic if swallowed.
- * 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.
- * H319 Causes serious eye irritation.
- * H330 Fatal if inhaled.
- * H335 May cause respiratory irritation.
- * H351 Suspected of causing cancer.
- * H400 Very toxic to aquatic life.
- * H410 Very 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.