



## CERTIFICATE OF ANALYSIS

|                        |  |
|------------------------|--|
| Product                | : Davana Oil   |
| Batch No               | : 4325601  |
| Best Before End of     | : June 2021  |
| Country of origin      | : India  |
| Description            | : The product is Natural and is obtained by the hydrodistillation of overground parts of <i>Artemisia pallens Wall</i> |
| Colour                 | : Reddish brown to orange yellow   |
| Appearance             | : Slightly viscous liquid  |
| Odour                  | : Strong herbaceous, fruity  |
| Refractive Index @20°C | : 1.4820   |
| Specific Gravity @25°C | : 0.951  |
| Optical rotation       | : +51°   |

### Storage

Do not store in close proximity to heat, sparks, open flames, strong acids, and strong bases. To minimise product degradation, avoid prolonged exposure of the material to air. Keep container tightly closed when not in use. Mix well before use.

**Shelf life:** Not more than 3 years when stored as recommended above.



## COSMETIC ALLERGENS DECLARATION

|                     |                   |
|---------------------|-------------------|
| <b>Product Name</b> | <b>DAVANA OIL</b> |
| <b>Product Code</b> | OEDAVA            |

We hereby certify that the product mentioned above, manufactured and supplied by MADAR Corporation Limited, Conforms to the Cosmetics Directive EC No.1223/2009, to the best of our Knowledge.

## MAJOR ALLERGENS CHECKLIST

| COMPONENT   | CAS NUMBER | PRESENCE (%) |
|---|------------|--------------|
| 2-METHYL-3-(4-(1,1-DIMETHYL ETHYL) PHENYL)PROPANAL (LILIAL) | 80-54-6    | Nil          |
| ALPHA ISO-METHYL IONONE (METHYL IONONE GAMMA)               | 127-51-5   | Nil          |
| AMYL CINNAMYL ALCOHOL                                       | 101-85-9   | Nil          |
| AMYL CINNAMALDEHYDE   | 122-40-7   | Nil          |
| ANISYL ALCOHOL  | 105-13-5   | Nil          |
| BENZYL ALCOHOL  | 100-51-6   | Nil          |
| BENZYL BENZOATE   | 120-51-4   | Nil          |
| BENZYL CINNAMATE  | 103-41-3   | Nil          |
| BENZYL SALICYLATE   | 118-58-1   | Nil          |
| CINNAMYL ACETATE  | 103-548    | Nil          |
| CINNAMIC ALCOHOL  | 104-54-1   | Nil          |
| CINNAMIC ALDEHYDE   | 104-55-2   | Nil          |
| CITRAL  | 5392-40-5  | Nil          |
| CITRONELLOL   | 106-22-9   | Nil          |
| COUMARIN  | 91-64-5    | Nil          |
| DIBROMO BENZENE   | 106-37-6   | Nil          |
| EUGENOL   | 97-53-0    | Nil          |
| ESTRAGOLE   | 140-67-0   | Nil          |
| FARNESOL  | 4602-84-0  | 0 - 1        |
| GERANIOL  | 106-24-1   | 0 - 5        |
| HEXYLCINNAMIC ALDEHYDE                                      | 101-86-0   | Nil          |
| HYDROXYCITRONELLAL  | 107-75-5   | Nil          |
| HYDROXYMETHYLPENTTYLCYCLOHEXENE CARBOXALDEHYDE (LIRAL)      | 31906-04-4 | Nil          |
| ISOEUGENOL  | 97-54-1    | Nil          |
| LILAL   | 80-54-6    | Nil          |
| LIMONENE  | 5989-27-5  | Nil          |
| LINALOOL  | 78-70-6    | 0 - 2        |



|                         |            |     |
|-------------------------|------------|-----|
| LYRAL                   | 31906-04-5 | Nil |
| METHYL EUGENOL          | 93-15-2    | Nil |
| METHYL OCTINE CARBONATE | 111-80-8   | Nil |
| PHENYL ACETALDEHYDE     | 122-78-1   | Nil |
| OAKMOSS                 | 90028-68-5 | Nil |
| TREEMOSS                | 90028-67-4 | Nil |

### PREVENTION OF CROSS CONTAMINATION

**Method**

Working spaces and the equipments are cleaned and the goods are stored under standard conditions

The above is based on the main allergens referred to in the following: -

Cosmetics Directive EC No.1223/2009

FDA: The Food Allergen Labelling and Consumer Protection Act of 2004(August 2004) (Title II of Public Law 108-282) effective from 1<sup>st</sup> Jan 2006.

Annex IIIa, of the Corncil Directive (EC) No 2003/89 of the 10<sup>th</sup> November 2003, amending Directive 2000/13/EC as regards indication of the ingredients present in foodstuffs. Further amended by Corncil Directive 2007/68/EC of the 27<sup>th</sup> November 2007

Codex Alimentarius: General Standard for the labelling of pre-packaged foods, Codex Standard 1-1985 (Rev 1-1991)

## IFRA CONFORMITY CERTIFICATE

**Product: DAVANA OIL**

We certify that the above item is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA - 48th Amendment / published June 2015), provided it is used in the following classes at a maximum concentration level of:

| IFRA classes [see annex for detail] | Maximum level of use (%) |
|-------------------------------------|--------------------------|
| IFRA Class 1 Limit                  | 1%                       |
| IFRA Class 2 Limit                  | 1%                       |
| IFRA Class 3.A Limit                | 2%                       |
| IFRA Class 3.B Limit                | 2%                       |
| IFRA Class 3.C Limit                | 2%                       |
| IFRA Class 3.D Limit                | 2%                       |
| IFRA Class 4.A Limit                | 2%                       |
| IFRA Class 4.B Limit                | 2%                       |
| IFRA Class 4.C Limit                | 2%                       |
| IFRA Class 4.D Limit                | 2%                       |
| IFRA Class 5 Limit                  | 2%                       |
| IFRA Class 6 Limit                  | 2%                       |
| IFRA Class 7.A Limit                | 2%                       |
| IFRA Class 7.B Limit                | 2%                       |
| IFRA Class 8.A Limit                | 2%                       |
| IFRA Class 8.B Limit                | 2%                       |
| IFRA Class 9.A Limit                | 2%                       |
| IFRA Class 9.B Limit                | 2%                       |
| IFRA Class 9.C Limit                | 2%                       |
| IFRA Class 10.A Limit               | 2%                       |
| IFRA Class 10.B Limit               | 2%                       |
| IFRA Class 11 Limit                 | Not Restricted           |

## IFRA CONFORMITY CERTIFICATE

For other kinds of application or use at higher concentration levels, a new evaluation may be needed; please contact MADAR Corporation Limited.

Contains the following substances restricted by the current IFRA Standards:-

| <b>Ingredient</b> | <b>CAS</b> | <b>Concentration (%)</b> |
|-------------------|------------|--------------------------|
| Farnesol          | 4602-84-0  | 0.1%                     |
| Geraniol          | 106-24-1   | 0.1%                     |
| Linalool          | 78-70-6    | 0.4%                     |

The IFRA Standards regarding use restrictions are based on safety assessments by the Panel of Experts of the RESEARCH INSTITUTE FOR FRAGRANCE MATERIALS (RIFM) and are enforced by the IFRA Scientific Committee.

Evaluation of individual Fragrance ingredients is made according to the safety standards contained in the relevant section of the IFRA Code of Practice.

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

## IFRA CONFORMITY CERTIFICATE

### ANNEX: Definition of IFRA Classes

| Finished product types  | IFRA class            |
|---|-----------------------|
| Lip Products of all types (solid and liquid lipsticks, balms, clear or colored, etc.); Children's Toys  | IFRA Class 1 Limit    |
| 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, deo-cologne and body spray, etc.); Nose pore strips; Fragranced Bracelets  | IFRA Class 2 Limit    |
| Hydroalcoholic Products Applied To Recently Shaved Skin (includes After Shave) (Edt range)  | IFRA Class 3.A Limit  |
| Hydroalcoholic Products Applied To Recently Shaved Skin (includes After Shave) (Fine fragrance range)   | IFRA Class 3.B Limit  |
| Eye Products of all types (eye shadow, mascara, eyeliner, eye make-up, etc.) including eye care; Men's Facial Creams and Balms; Baby Creams, Lotions, Oils; Body Paint for Children   | IFRA Class 3.C Limit  |
| Tampons   | IFRA Class 3.D Limit  |
| Hydroalcoholic Products applied to unshaved skin (includes aqueous based, alcoholic based and hydroalcoholic) like Cologne, eau de cologne, Eau de Parfum or Parfum (Edt range); Ingredients of Perfume Kits; Scent Pads, Foil packs; Scent Strips for hydroalcoholic products  | IFRA Class 4.A Limit  |
| Hydroalcoholic Products applied to unshaved skin (includes aqueous based, alcoholic based and hydroalcoholic) like Cologne, eau de cologne, Eau de Parfum or Parfum (Fine fragrance range)  | IFRA Class 4.B Limit  |
| Hair Styling Aids Sprays of all types (pumps, aerosol sprays, etc.); Body Creams, Oils, Lotions of all types (except baby creams, lotions and oils); Body sprays (including Body Mist) with no intended or reasonably foreseeable use on the axillae; Fragrance Compounds for Cosmetic Kits; Foot Care Products; Hair deodorant; Body Paint (except those for children)   | IFRA Class 4.C Limit  |
| Fragrancing Cream; Solid perfumes   | IFRA Class 4.D Limit  |
| Women's Facial Creams/Facial Make-up; Hand Cream; Hand sanitizers; Facial Masks; Baby Powder and Talc; Hair Permanent and other hair chemical treatments (e.g. relaxers) but not hair dyes; Wipes or Refreshing Tissues for Face, Neck, Hands, Body; Dry Shampoo or Waterless Shampoo   | IFRA Class 5 Limit    |
| Mouthwash, including Breath Sprays; Toothpaste  | IFRA Class 6 Limit    |
| Intimate Wipes; Baby Wipes  | IFRA Class 7.A Limit  |
| Insect Repellent (intended to be applied to the skin)   | IFRA Class 7.B Limit  |
| Make-up Removers of all types (not including face cleansers); Hair Styling Aids Non-Spray of all types (mousse, gels, leave-in conditioners, etc.); Nail Care; Powders and talcs, all types (except baby powders and talcs)   | IFRA Class 8.A Limit  |
| Hair Dyes   | IFRA Class 8.B Limit  |
| Conditioner (Rinse-Off); Liquid Soap; Shampoos of all types (including baby shampoos); Face Cleansers of all types (washes, gels, scrubs, etc.); Shaving Creams of all types (stick, gels, foams, etc.); All Depilatories (including waxes for mechanical hair removal); Body Washes of all types (including baby washes) and Shower Gels of all types; Bar Soap (Toilet Soap); Bath Gels, Foams, Mousses, Salts, Oils and Other Products added to bathwater  | IFRA Class 9.A Limit  |
| Feminine hygiene - pads, liners; Toilet paper; Wheat bags   | IFRA Class 9.B Limit  |
| Facial tissues; Napkins; Paper towels; Other Aerosols (including air freshener sprays and air freshener pump sprays, but not including deodorants/antiperspirants, hair styling aids sprays); Fragranced Face Masks (not intended to be used as medical device)   | IFRA Class 9.C Limit  |
| Handwash Laundry Detergents of all types including concentrates; Fabric Softeners of all types including fabric softener sheets; Household Cleaning Products, Other Types (fabric cleaners, soft surface cleaners, carpet cleaners, etc.); Machine Wash Laundry Detergents (liquids, powders, tablets, etc.) including laundry bleach and concentrates; Hand Dishwashing Detergent including concentrates; Hard Surface Cleaners of all types (bathroom and kitchen cleansers, furniture polish, etc.); Shampoos for pets; Dry cleaning kits; Scented gloves, socks, tights with moisturizers   | IFRA Class 10.A Limit |
| Diapers; Toilet seat wipes  | IFRA Class 10.B Limit |
| All non-skin contact or incidental skin contact including: Candles; Air Fresheners and Fragrancing of all types (concentrated aerosol with metered doses (range 0.05-0.5mL/spray), plug-ins, solid substrate, membrane delivery, electrical); Air Delivery Systems; Cell phone cases; Pot pourri, powders, fragrancing sachets, liquid refills for air fresheners (non-cartridge systems), Reed diffusers; Liquid refills for air fresheners (cartridge systems); Shoe Polishes; Deodorizers/Maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders); Insecticides (mosquito coil, paper, electrical, for clothing etc.) excluding aerosols; Scent delivery system using a dry air technology that releases a fragrance without sprays, aerosols or heated oils (technology of nebulization); Air freshening crystals; Toilet Blocks; Joss Sticks or Incense Sticks; Machine Dishwash Detergent and Deodorizers; Machine-only Laundry Detergent (e.g. liquitabs); Plastic articles (excluding toys); Fuels; Fragranced lamp ring; Scent pack; Scratch and Sniff (sampling technology); Paints; Cat litter; Animal sprays (all types); Treatment products for textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics); Floor wax; Odored Distilled Water (that can be added to steam irons) | IFRA Class 11 Limit   |



**MATERIAL SAFETY DATA SHEET**

**Davana Essential Oil**

**1. IDENTIFICATION**

Product Name : Davana oil  
Category of product : Essential oil  
Description : The product is Natural and is obtained by the hydro Distillation of overground parts of *Artemisia pallens* Wall.  
CAS Number : 8016 - 03-3  
Physical state : Liquid  
Colour : Reddish brown to orange yellow  
Odour : Strong herbaceous, fruity  
**Company** : Madar Coporation  
19-20 Sandleheath Industrial Estate,  
Fordingbridge, Hampshire, SP6 1PA, UK  
Tel: 01425 655555  
Email: technical@madarcorporation.co.uk

**2. COMPOSITION**

| <u>CAS NO</u> | <u>MAJOR INGREDIENTS</u> |
|---------------|--------------------------|
| -             | Davanone                 |

----- EC Classifications-----

SYMBOL(S)  
Xi > Irritant

RISK PHRASES  
R10 > Flammable  
R36 > Irritating to eyes  
R38 > Irritating to skin  
R22 > Harmful if swallowed

SAFETY PHRASES  
S16 > Keep away from sources of ignition - No smoking  
S24 > Avoid contact with skin  
S25 > Avoid contact with eyes



### 3. HAZARDS IDENTIFICATION

#### **Risk Summary**

Flammable, Harmful if swallowed.  
It is irritating to eyes and skin.

### 4. FIRST AID MEASURES

#### **Eye Contact**

Flush with water for at least 15 minutes. If irritation develops, get medical attention

#### **Skin contact**

Remove contaminated clothing. Wash affected area with plenty of soap water. If irritation develops, get medical attention.

#### **Inhalation**

Seek fresh air immediately. If breathing is difficult, get medical attention.

#### **Ingestion**

Drink lot of water to dilute substance. Get medical attention.

### 5. FIRE FIGHTING MEASURES

#### **Means to Extinguish**

Carbon dioxide, dry chemical, foam. If water must be used, use as a spray only.

#### **Unusual Fire/ Explosion Hazards**

Flammable liquid. Avoid heat, sparks and open flames. Non explosive.

### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precaution**

Specifically given in section 8.

#### **Environmental precautions**

Do not discharge into streams, ponds or Public waters.

#### **Cleanup Procedures**

Small spills should be adsorbed by dirt, sand or other adsorbent. Large spills may be diked and pumped into closed containers for recovery or disposal.





## **7. HANDLING AND STORAGE**

### **Handling**

Wear safety glasses, rubber gloves and apron when handling.

### **Storage**

Do not store in close proximity to heat, sparks, open flames, strong acids, and strong bases. To minimise product degradation, avoid prolonged exposure of the material to air. Keep container tightly closed when not in use.

### **Shelf life**

Not more than 3 years, when stored as recommended above.

## **8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

### **EXPOSURE CONTROLS:**

#### **Ventilation**

Mechanical exhaust may be needed in confined and warm areas.

#### **Safety Station**

An eyewash and safety shower should be readily available.

#### **Contaminated Equipment**

Clean contaminated equipment with soap and water.

### **PERSONAL PROTECTION EQUIPMENT:**

#### **Eye Protection**

As a precaution, wear safety glasses or goggles.

#### **Hand protection**

Wear standard industrial type rubber gloves.

#### **Skin Protection**

A rubber apron is recommended when handling large quantities of this material.

#### **Respiratory protection**

A respirator is not normally required. If vapor concentration is high use a organic vapour respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                 |   |                                |
|---------------------------------|---|--------------------------------|
| Appearance                      | : | Slightly viscous liquid        |
| Colour                          | : | Reddish brown to orange yellow |
| Odour                           | : | Strong herbaceous, fruity      |
| Boiling point                   | : | Not determined                 |
| Vapour pressure                 | : | Not determined.                |
| Flash point                     | : | 94 °C                          |
| Oxidising properties            | : | Not determined                 |
| Explosive properties            | : | Not explosive.                 |
| Flammability limits             | : | Not determined.                |
| Specific Gravity                | : | Between 0.869 and 0.985        |
| Refractive index                | : | Between 1.4810 and 1.4955      |
| Optical rotation                | : | Between +31 and +65            |
| Davanone (by GC)                | : | 40-55 %                        |
| Solubility in water (Weight %): | : | < 0.1                          |
| Solubility in 80% Alcohol       | : | Soluble up to 10 volume        |

## 10. STABILITY AND REACTIVITY

### Conditions to Avoid

Prolonged or excessive heat and/or exposure to air may cause decomposition or oxidation of the material.

### Materials to avoid

Contact with Chemicals may decompose the ingredients present in it. If possible avoid contact with all kinds of Chemical.

## 11. TOXICOLOGICAL INFORMATION

Not Available

## 12. ECOLOGICAL INFORMATION

Not Available

## 13. DISPOSAL CONSIDERATION

In event of spillage, the oil can be contained by sand or soil and absorbed by paper from which the oil will evaporate.



#### **14. TRANSPORT INFORMATION**

The oil can be safely stored or transported in sound metal drums or bottles at ambient temperatures. Store in full sealed containers, keep cool and protect from light to preserve quality, preferred container for long term storage - stainless steel or glass.

##### **AIR FREIGHTS:**

Air freights are done in conformance to latest IATA/ICAO regulations with the name and address of the notifying party on the cartons

#### **15. REGULATORY INFORMATION**

##### REGULATORY STATUS

The product is listed in CAS

CAS# 8016- 03- 3

The product is registered in FDA, Fema and in the council of Europe.

FDA NO # 172.510

Fema NO # 2359

Council of Europe NO# 69n

H-No: 3301.29

H.S.CODE (CUSTOMS TARRIF CODE) # 3301 29 44

#### **16. OTHER INFORMATION**

##### REFERENCES

1. The Essential oils by Gunther Volume IV
2. Wealth Asia disk 2.2(Publication of CSIR, India)
3. Essential oils 1976- 1978 by Dr. Brain M Lawrence
4. Food Chemical codex
5. Source Book of Flavours by Gary Reineccius
6. Flavour Technology by Heath.

USES: The oil is used in fine perfumery and as a flavour ingredient in liquors & Bakery foods.



## SPECIFICATION SHEET

Product : DAVANA OIL  
Product Code : EO - 1029  
CAS # : 8016-03-3

---

| TEST                     | REQUIREMENT                    | RESULTS  |
|--------------------------|--------------------------------|----------|
| Appearance               | Slightly viscous liquid        | Conforms |
| Colour                   | Reddish brown to orange yellow | Conforms |
| Odour                    | Strong herbaceous, fruity      | Conforms |
| Specific gravity         | Between 0.869 and 0.985        | Conforms |
| Refractive Index @ 20° C | Between 1.4810 and 1.4955      | Conforms |
| Optical rotation         | Between +31 and +65            | Conforms |
| Davanone (by GC)         | 40-55 %                        | Conforms |
| Heavy Metal              | Less than 5ppm                 | Conforms |
| Microbial                | Not Applicable                 | NA       |

---

### **QUALITY CONTROL:**

1. The product is subjected to all the required analysis to conform the internal specification (As detailed above).
2. The product is subjected gas chromatographic analysis to find out the percentage of Specific components, GC profile and impurities.
3. The product is subjected to careful organoleptic examination.

### **STANDARDS:**

Oil confirms to internal specifications (As detailed above).  
Specific purpose blends can also be supplied on request.



Date: 24.09.2018

## **VEGAN & VEGETARIAN STATEMENT**

To Whom It May Concern,

We confirm that the DAVANA ESSENTIAL OIL we sell, complies with a vegan or vegetarian diet. It contain no animal ingredients or animal by-products, use no animal ingredients or by-products in the manufacturing process, and are not tested on animals.

Therefore it is suitable for vegan and vegetarians.