

# <u>CERTIFICATE OF ANALYSIS</u> ORGANIC STAR ANISE OIL

| Batch No:    | 4423907       |
|--------------|---------------|
| Best Before: | February 2024 |
|              |               |

**Appearance:** Liquid, colourless to pale yellow.

**Odour:** Characteristic

| TEST                              | SPECIFICATION | ANALYSIS |
|-----------------------------------|---------------|----------|
| Relative Density @ 20°C (g/ml)    | 0.975 – 0.994 | 0.980    |
| Refractive Index @ 20°C           | 1.5525-1.5610 | 1.555    |
| Optical Rotation @ 20°C (Degrees) | -2.0 to +2.0  | +0.7°    |
| Anethole Content (% GC)           | ≥ 87.0        | 90.2     |

This COA is produced electronically therefore no signature is required.



| Product Name | Organic Star Anise       |  |  |
|--------------|--------------------------|--|--|
| INCI Name    | Illicium Verum Fruit Oil |  |  |
| Product Code | OCSTARANIS               |  |  |
| Revision No  | 1 Date 25/01/2021        |  |  |

| Restricted Component                    | CAS       | % Level in<br>Product | IFRA Standard |
|---|-----------|-----------------------|---------------|
| LIMONENE                                | 5989-27-5 | ≤1.0                  | Specification |
| LINALOOL                                | 78-70-6   | ≤5.0                  | Specification |
| ESTRAGOLE (METHYL<br>CHAVICOL)          | 140-67-0  | ≤5.0                  | Restriction   |
| P-METHOXYBENZALDEHYDE<br>(ANISALDEHYDE) | 123-11-5  | ≤1.0                  | Restriction   |

We certify that the above compound is in compliance with the Standards of the International Fragrance Association (IFRA 49<sup>TH</sup> Amendment published June 25); provided it is used in the following class(es) at a maximum concentration level of the above.

**Flavour use consideration** - Due to the possible ingestion of small amounts of fragrance ingredients from their use in products in Categories 1 and 6, materials must not only comply with IFRA Standards but must also be recognized as safe as a flavouring ingredient as defined by the IOFI Code of Practice (www.iofi.org). For more details see chapter 1 of the Guidance for the use of IFRA Standards.

| IFRA class(es) [see annex for details] | Max level of use (%) |
|--|----------------------|
| Category 1                             | 0.240                |
| Category 2                             | 0.460                |
| Category 3                             | 0.240                |
| Category 4                             | 8.400                |
| Category 5A                            | 1.500                |
| Category 5B                            | 0.124                |
| Category 5C                            | 0.240                |
| Category 5D                            | 0.042                |
| Category 6                             | 0.620                |
| Category 7A                            | 0.240                |
| Category 7B                            | 0.240                |
| Category 8                             | 0.042                |
| Category 9                             | 1.000                |
| Category 10A                           | 1.000                |
| Category 10B                           | 1.000                |
| Category 11A                           | 0.042                |
| Category 11B                           | 0.042                |

Category 12

30.00

For other kinds of application or use at higher concentration levels, a new evaluation may be needed.

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.

This certificate serves only as a guide to the maximum level of use. It is the ultimate responsibility of the customer to ensure safe formulating principles are utilised and the safety of the final product (containing this fragrance), by further testing if need be.

Note 1: It is recommended that any material used to impart perfume or flavour in products intended for human ingestion should consist of ingredients that are in compliance with appropriate regulations for foods and food flavourings in the countries of planned distribution.

Note 2: Trials must be performed to satisfy suitability for specified application.

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

# **ANNEX: Definition of IFRA Classes**

| Finished product types   | IFRA<br>Category | Flavour<br>Use | Phototoxicity                        |
|--|------------------|----------------|--------------------------------------|
| Lip products of all types (solid and liquid lipsticks, balms, clear and coloured, etc.) Children's Toys  | 1                | Yes            | Applicable<br>(Leave-on<br>Products) |
| 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-up, under-arm, deo-cologne, etc.). Body sprays (including mist).   | 2                | No             | Applicable (Leave-<br>on Products)   |
| Eye products of all types (eye-shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturiser. Face make-up and foundation. Make-up remover for face and eyes. Nose pore strips. Wipes refreshing tissues for face, neck, hands, body. Body and face paint (for children and adults). Facial masks for face and around the eyes. | 3                | No             | Applicable (Leave-<br>on Products)   |
| Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau De Toilette, Parfum, Cologne, Solid Perfume, Fragrancing Cream, Aftershaves of all types etc.) Fragranced Bracelets. Ingredients of perfume kits and fragrance mixtures for cosmetic kits. Scent pads, foil packs. Scent strips for hydroalcoholic products.  | 4                | No             | Applicable (Leave-<br>on Products)   |
| Body Creams, oils, lotions of all types. Foot care products (creams and powders). Insect repellent (intended to be applied to skin). All powders and talc (excluding baby powders and talc).   | 5A               | No             | Applicable (Leave-<br>on Products)   |
| Facial toner. Facial Moisturisers and creams.  | 5B               | No             | Applicable (Leave-<br>on Products)   |
| (women's facial creams) Hand cream. Nail care products including cuticle creams, etc. Hand sanitisers.   | 5C               | No             | Applicable (Leave-<br>on Products)   |
| Baby cream/lotion, baby oil, baby powders and talc.  | 5D               | No             | Applicable (Leave-<br>on Products)   |
| Toothpaste. Mouthwash, including breath sprays. Toothpowder, strips, mouthwash tablets.  | 6                | Yes            | Applicable (Leave-<br>on Products)   |
| Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse off hair dyes  | 7A               | No             | Applicable (Leave-<br>on Products)   |
| Hair sprays of all types (pumps, aerosol sprays, etc). Hair styling aids non-spray (mousse, gels, leave-on conditioners). Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes. Shampoo – Dy (waterless shampoo). Hair deodoriser.  | 7B               | No             | Applicable (Leave-<br>on Products)   |
| Intimate wipes. Tampons. Baby Wipes. Toilet paper (wet).   | 8                | No             | Applicable (Leave-<br>on Products)   |
| Bar soap. Shampoo of all types. Cleanser for face (rinse-off). Conditioner (rinse-off) Liquid soap. Body washes and shower gels of all types. Baby   | 9                | No             | Applicable (Rinse-<br>off Products)  |

|   |     | 1  | 1  |
|---|-----|----|--|
| wash, bath, shampoo. Bath gel foams, mousses, salts, oils, and other products added to bath water. Foot care products (feet are placed in bath for soaking). Shaving creams of all types (stick, gel, foams, etc.). All depilatories (including facial) and waxes for mechanical hair removal. Shampoo for pets.  |     |    |  |
| Hand wash laundry detergent (including concentrates). Laundry pretreatment of all types (e.g. paste, sprays, sticks). Hand dishwashing detergent (including concentrates). 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 spray and wipe, leather cleaning wipes, stain removers, fabric enhancing sprays, treatment products for textiles (e.g. starch sprays, fabric treatment with fragrances after wash, deodorisers for textiles or fabrics). Floor wax. Fragranced oil for lamp ring, reed diffusers, pot-purri, liquid refills for air fresheners (non-cartridge systems), etc. Ironing water (odourised distilled water). | 10A | No | Applicable (Rinse-<br>off Products)                    |
| Animal sprays – sprays applied to animals of all types. Air fresheners sprays, manual, including aerosol and pump. Aerosol spray insecticides.  | 10B | No | Applicable (Rinse-off Products)                        |
| Feminine hygiene conventional pads, liners, interlabial pads. Diapers (baby and adult). Adult incontinence pant, pad. Toilet paper (dry).   | 11A | No | Not Apllicable (leave-on products without UV exposure) |
| Tights with moisturisers. Scented cocks, gloves. Facial tissues (dry tissues). Napkins. Paper Towels. Wheat bags. Facial masks (paper/protective) e.g. surgical masks used as medical device. Fertilisers, solid (pellet or powder).  | 11B | No | Applicable (Leave-<br>on Products)                     |
| 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 metred doses (range 0.05 – 0.5 ml/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. Deodorisers/maskers not intended for skin contact (e.g. fabric drying machine deodorisers and carpet powders). Fuels. Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosols/sprays. Joss sticks or incense sticks. Dishwasher detergent and deodorisers – for machine wash. Olfactive board games. Paints. Plastic articles (excluding toys). Scratch and sniff. Scent pack. Scent delivery system (using dry air technology). Show polishes. Rim blocks (Toile).                           | 12  | No | Not Apllicable<br>(Non-skin contact<br>products)       |

The table was prepared with the intention to cover the vast majority of the products; however, it may not cover some specific applications. In this case other classes may be attributed based on a specific risk assessment.



# 01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

| 1.1 Product Identifi  | er         |   |                    |            |           |
|-----------------------|------------|---|--------------------|------------|-----------|
| Product Name          |            | Organic Aniseed   | d (Star Anise) Oil |            |           |
| Biological Definition |            | Illicium Verum Fruit Oil is an essential oil distilled from the fruits of the |                    |            |           |
|                       |            | Star Anise.   |                    |            |           |
| INCI Name             |            | Illicium Verum Fruit Oil.   |                    |            |           |
| Synonyms & Trade Nam  | ies        | -   |                    |            |           |
| CAS-No                | 84650-59-9 | EC No.  | 283-518-1          | EINECS No. | 283-518-1 |

# 1.2 Relative identified uses of the substance or mixture and uses advised against

Suitable for cosmetic, fragrance, flavour and professional use only.

# 1.3 Details of the supplier of the safety data sheet

MADAR Corporation Limited 19 - 20 Sandleheath Industrial Estate Fordingbridge SP6 1PA

1.4 Emergency Tel. No.

+ 44 (0) 1425 655 555

### **02. HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

No additional data

Classification (EC 1272/2008)

Health hazards:

- Skin Sens. 1 H317
- Muta. 2 H341
- Carc. 2 H351

Environmental hazards:

- Aquatic Chronic 3 - H412

# 2.2 Label Elements

Label in accordance with (EC) No 1272/2008







| Signal Word | Warning.             |
|-------------|----------------------|
| Contains    | - trans-Anethole     |
|             | - Estragole          |
|             | - alpha- Pinene      |
|             | - d-Limonene         |
|             | - alpha- Terpinolene |

#### **Hazard Statements**

- H317 May cause an allergic skin reaction.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary Statements**

- P261 Avoid breathing vapour/ spray.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P262 Do not get in eyes, on skin, or on clothing.
- P302/P352 IF ON SKIN Wash with plenty of water.
- P501 Dispose of contents/container in accordance with national regulations.

#### **Supplementary Precautionary Statements**

- P201 Obtain special instructions before use.
- P202 Do not handle, until all safety precautions have been read and understood.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P308/P313 IF exposed or concerned: Get medical advice/ attention.
- P321 Specific treatment (see medical advice on this label).
- P333/P313 If skin irritation or rash occurs: Get medical advice/ attention.
- P362/P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.

#### 2.3 Other Hazards

| PBT or vPvB according to Annex XIII | No additional data |
|-------------------------------------|--------------------|
| Adverse physio-chemical properties  | No additional data |
| Adverse effects on human health     | No additional data |

### **03. COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.2 Mixtures

### > 86.0 % trans-Anethole

CAS: 4180-23-8

Classification (EC 1272/2008)

Skin Sens. 1 - H317

#### 1.0 - 5.0% Estragole

CAS: 140-67-0

Classification (EC 1272/2008)

- Acute Tox. 4 H302
- Skin Sens. 1 H317

# MYSTIC M@MENTS

# **MATERIAL SAFETY DATA SHEET**

- Muta. 2 H341
- Carc. 2 H351

#### 1.0 - 5.0% Linalool

CAS: 78-70-6

Classification (EC 1272/2008)

- Skin Irrit. 2 H315
- Skin Sens. 1B H317
- Eye Irrit. 2 H319

#### < 1.0% d- Limonene

CAS: 5989-27-5

Classification (EC 1272/2008)

- Flam. Liq. 3 H226
- Asp. Tox. 1 H304
- Skin Irrit. 2 H315
- Skin Sens. 1 H317
- Aquatic Acute 1 H400
- Aquatic Chronic 1 H410

# < 1.0% p-methoxybenzaldehyde (Anisaldehyde)

CAS: 123-11-5

Classification (EC 1272/2008)

- Not classified as hazardous

### < 0.7% alpha- Terpinolene

CAS: 586-62-9

Classification (EC 1272/2008)

- Asp. Tox. 1 H304
- Skin Sens. 1 H317
- Aquatic Acute 1 H400
- Aquatic Chronic 1 H410

#### < 0.7% alpha- Pinene

CAS: 80-56-8

Classification (EC 1272/2008)

- Flam. Liq. 3 H226
- Acute Tox. 4 H302Asp. Tox. 1 H304
- Skin Irrit. 2 H315
- Skin Sens. 1 H317
- Aquatic Acute 1 H400
- Aquatic Chronic 1 H410

### **04. FIRST AID MEASURES**

| 4.1 Description of first aid measures |   |
|---------------------------------------|---|
| Inhalation                            | Move affected person to fresh air at once. Get medical attention.                               |
| Ingestion                             | Get medical attention immediately. If medical advice is needed, have product container or label |
|                                       | at hand. Do not induce vomiting.  |



| Skin Contact | Remove contaminated clothing immediately and wash skin with soap and water. Get medical        |
|--------------|--|
|              | attention if irritation persists after washing.  |
| Eye Contact  | Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. |
|              | Get medical attention if symptoms are severe or persist after washing.                         |

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

#### Inhalation:

May cause coughing and difficulties in breathing.

#### Ingestion:

- Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system.

#### Skin contact:

Toxic in contact with skin.

#### Eye contact:

- May cause eye irritation.

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

No additional data

### **05. FIRE-FIGHTING MEASURES**

#### 5.1 Extinguishing Media

carbon dioxide (CO<sub>2</sub>), dry chemical or foam Do NOT use water.

### 5.2 Special hazards arising from the product

Burning produces irritating, toxic and obnoxious fumes.

# 5.3 Advice for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

#### **06. ACCIDENTAL RELEASE MEASURES**

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area, evacuate personnel to safe area, wear suitable protective equipment. No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin, eyes and clothing.

### 6.2 Environmental Precautions

Do not discharge into drains, water courses or onto the ground.

#### 6.3 Methods and material for containment and cleaning up.

Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled container for disposal. Clean spillage area thoroughly with plenty of water.

#### 6.4 Reference to other sections

Section 13



#### **07. HANDLING AND STORAGE**

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Provide adequate ventilation. Do not eat, drink or smoke when using this product.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated place. Protect from heat, freezing and light including sunlight. Keep containers tightly closed at all times when not in use.

#### 7.3 Specific end use(s)

No additional data

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

### 8.1 Control parameters

#### trans-anethole (CAS: 4180-23-8)

DNEL

Workers - Inhalation; Long term systemic effects: 26.45 mg/m³
Workers - Dermal; Long term systemic effects: 7.5 bw/day, mg/kg
General population - Inhalation; Long term systemic effects: 6.5 mg/m³
General population - Dermal; Long term systemic effects: 3.75 bw/day, mg/kg
PNEC

- Fresh water; Short term 0.007 mg/l
- STP; Short term 0.972 mg/l

#### Linalool (CAS: 78-70-6)

**DNEL** 

Workers - Dermal; Short term systemic effects: 5 mg/kg

Workers - Inhalation; Short term systemic effects: 16.5 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 2.5 mg/kg

Workers - Inhalation; Long term systemic effects: 2.8 mg/m<sup>3</sup>

General population - Oral; Short term systemic effects: 1.5 mg/kg

General population - Dermal; Short term systemic effects: 2.5 mg/kg

General population - Inhalation; Short term systemic effects: 4.1 mg/m<sup>3</sup>

General population - Oral; Long term systemic effects: 0.2 mg/kg

General population - Dermal; Long term systemic effects: 1.25 mg/kg

General population - Inhalation; Long term systemic effects: 0.7 mg/m<sup>3</sup>

#### **PNEC**

- STP; Short term 10 mg/l
- Soil; Short term 0.327 mg/kg
- Intermittent release; Short term 2 mg/l
- Fresh water; Short term 0.2 mg/l
- Marine water; Short term 0.02 mg/l
- Sediment (Freshwater); Short term 2.22 mg/kg
- Sediment (Marine water); Short term 0.222 mg/kg



#### Alpha Pinene (CAS: 80-56-8)

DNFL

Workers - Inhalation; Long term systemic effects: 3.8 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 0.54 mg/kg, bw/day

General population - Inhalation; Long term systemic effects: 0.67 mg/m<sup>3</sup>

General population - Dermal; Long term systemic effects: 0.19 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.19 mg/kg, bw/day

**PNEC** 

- Fresh water; Short term 0.606 mg/l
- Fresh water, Intermittent release; 3.03 mg/l
- Marine water; Short term 0.061 mg/l
- Intermittent release, Marine water; 0.303 mg/l
- STP; Short term 0.2 mg/l
- Sediment (Freshwater); Short term 157 mg/kg
- Sediment (Marine water); Short term 15.7 mg/kg
- Soil; Short term 31.7 mg/kg

#### (R)-p-mentha-1,8-diene (CAS: 5989-27-5)

**DNEL** 

Workers - Inhalation; Long term systemic effects: 33.3 mg/m³ General population - Oral; Long term systemic effects: 4.76 mg/kg

**PNEC** 

- STP; 1.8 mg/l
- Soil; 0.262 mg/kg
- Fresh water; 0.0054 mg/l
- Marine water; 0.00054 mg/l
- Sediment (Freshwater); 1.32 mg/kg
- Sediment (Marine water); 0.13 mg/kg

# p-methoxybenzaldehyde (CAS: 123-11-5)

**DNEL** 

Workers - Inhalation; Long term systemic effects: 14.7 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 6.9 bw/day, mg/kg

General population - Inhalation; Long term systemic effects: 4.35 mg/m<sup>3</sup>

General population - Dermal; Long term systemic effects: 4.2 bw/day, mg/kg

General population - Oral; Long term systemic effects: 2.5 bw/day, mg/kg

**PNEC** 

- Fresh water; Short term 81.11 mg/l
- Fresh water, Intermittent release; Short term 811.1 mg/l
- Marine water; Short term 8.111 mg/l
- STP; Short term 4.5 mg/l
- Sediment (Freshwater); Short term 409 mg/kg
- Sediment (Marine water); Short term 40.9 mg/kg
- Soil; Short term 96.7 mg/kg

# MYSTIC MOMENTS

# **MATERIAL SAFETY DATA SHEET**

# a terpinolene (CAS: 586-62-9)

DNFL

Workers - Inhalation; Long term systemic effects: 3.6 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 0.52 bw/day, mg/kg

General population - Inhalation; Long term systemic effects: 0.9 mg/m<sup>3</sup>

General population - Dermal; Long term systemic effects: 0.26 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.26 bw/day, mg/kg

**PNEC** 

- Fresh water; Short term 0.634 mg/l
- Intermittent release, Fresh water; Short term 0.634 mg/l
- Marine water; Short term 0.063 mg/l
- STP; Short term 0.2 mg/l
- Sediment (Freshwater); Short term 14.7 mg/kg
- Sediment (Marine water); Short term 14.7 mg/kg
- Soil; Short term 29.1 mg/kg

### 8.2 Exposure controls

### **Protective Equipment**







| Process Conditions     | Safety shower and eye bath.  |  |
|------------------------|--|--|
| Engineering Measures   | Provide adequate ventilation.  |  |
| Respiratory Equipment  | Generally unnecessary in a well-ventilated area. If ventilation is insufficient, respiratory |  |
|                        | protection must be worn.   |  |
| Hand Protection        | Wear Chemical resistant gloves (PVC)   |  |
| Eye Protection         | Wear approved safety goggles.  |  |
| Other Protection       | Wear protective clothing.  |  |
| Hygiene Measures       | Good personal hygiene procedures should be implemented.                                      |  |
| Personal Protection    | Use personal protection according to Directive 89/686/EEC.                                   |  |
| Skin Protection        | Wear apron or protective clothing in case of splashes.                                       |  |
| Environmental Exposure | Avoid discharging into drainage water.   |  |
| Controls               |  |  |

### **09. PHYSICAL AND CHEMICAL PROPERTIES**

| 9.1 Information on basic physical and chemical properties |                      |  |
|---|----------------------|--|
| Appearance  | Liquid               |  |
| Colour  | Pale Yellow – Yellow |  |
| Odour   | Characteristic       |  |
| Relative Density  | ~0.984 @ 20°C        |  |
| Flash Point (°C)  | 96.0°C               |  |
| Refractive Index  | ~1.560 @ 20 °C       |  |
| Melting Point (°C)  | No additional data   |  |



| Boiling Point (°C)        | No additional data   |  |
|---------------------------|----------------------|--|
| Vapour Pressure           | No additional data   |  |
| Solubility in Water @20°C | Insoluble in water.  |  |
| Auto-ignition             | No additional data   |  |
| temperature (°C)          |                      |  |
| 9.2 Other information     | .2 Other information |  |
| No additional data        | No additional data   |  |

# **10. STABILITY AND REACTIVITY**

# 10.1 Reactivity

No additional data

# 10.2 Chemical stability

Stable under the recommended handling and storage conditions.

### 10.3 Possible hazardous reactions

No additional data

#### 10.4 Conditions to Avoid

Avoid heat, flames and other sources of ignition.

# 10.5 Incompatible materials

Strong acids, alkali or oxidising agents.

# 10.6 Hazardous Decomposition Products

In case of fire, during combustion may form carbon monoxide and unidentified organic compounds.

### **11. TOXOLOGICAL INFORMATION**

| 11.1 Information on toxicological effects |                                       |  |
|---|---------------------------------------|--|
| Acute Toxicity                            | Acute toxicity - oral                 |  |
|   | ATE oral 15,151.52 mg/kg              |  |
| Skin corrosion / irritation               | Not classified.                       |  |
| Serious eye damage / irritation           | Not classified.                       |  |
| Respiratory or skin sensitisation         | May cause an allergic skin reaction.  |  |
| Germ Cell Mutagenicity                    | Suspected of causing genetic defects. |  |
| Carcinogenicity                           | Suspected of causing cancer.          |  |
| Reproductive toxicity                     | Not classified.                       |  |
| STOT-single exposure                      | Not classified.                       |  |
| STOT-repeated exposure                    | Not classified.                       |  |
| Aspiration hazard                         | Not classified.                       |  |
| Photo-toxicity                            | No additional data                    |  |
| Other Information                         | No additional data                    |  |



### **12. ECOLOGICAL INFORMATION**

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

12.2 Persistence & degradability

No additional data

12.3 Bioaccumulation Potential

No additional data

12.4 Mobility in soil

No additional data

12.5 Results of PBT and vPvB Assessment

No additional data

12.6 Other adverse effects

No additional data

### 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in compliance with all local and national regulations.

### 14. TRANSPORT INFORMATION

| 14.1 | UN number                  |       |
|------|----------------------------|-------|
|      | UN No. Road                | None. |
|      | UN No. SEA                 | None. |
|      | UN No. AIR                 | None. |
| 142  | LINI proper chimping pages |       |

#### 14.2 UN proper shipping name

None.

14.3 Transport hazard class(es)

No transport warning sign required.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

No additional data

14.6 Special precautions for user

No additional data

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

No additional data



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

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Workplace Exposure Limits EH40. CHIP for everyone HSG (108). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

### 15.2 Chemical safety assessment

No additional data

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

| Hazard Statements in Full | 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.                        |  |
|                           | H341 - Suspected of causing genetic defects.                 |  |
|                           | 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.    |  |
| Revision Date             | 22/01/2021   |  |
| Rev No                    | 4  |  |

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



# PRODUCT SPECIFICATION

| Produc | ct Name    | Organic Aniseed (Star Anise) Oil |    |   |
|--------|------------|----------------------------------|----|---|
| Date   | 22/01/2021 | Product Code                     | Re | 4 |

| Description | Illicium Verum Fruit Oil is an essential oil distilled from the fruits of the Star Anise. |  |  |
|-------------|---|--|--|
| Appearance  | Liquid, Pale Yellow – Yellow  |  |  |
| Odour       | Characteristic  |  |  |
| Origin      | China   |  |  |
| INCI Name   | Illicium Verum Fruit Oil  |  |  |
| CAS Number  | 68952-43-2 EC number 283-518-1  |  |  |

#### **TEST SPECIFICATION**

| Analytical Test                | Specification Range |
|--------------------------------|---------------------|
| Specific Gravity @ 20°C (g/ml) | 0.975 – 0.994       |
| Refractive Index @ 20°C        | 1.5525 – 1.5610     |
| Optical Rotation (°)           | -2.0 to +2.0        |
| Anethole Content (% GC)        | ≥87.0               |

#### **STORAGE**

Store in a cool, dry, well-ventilated place. Keep away from heat and sunlight.

#### **STABILITY**

If stored for twenty-four months, check quality of product before use.

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Please note as this is a wholly natural material some parameters, in particular, appearance, colour and odour, may change due to natural variation and climate change. This in no way affects the quality and efficacy of the product.