



## RED MANDARIN BRAZIL ORGANIC

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

|                         |                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Commercial Product Name | RED MANDARIN BRAZIL ORGANIC                                                                                                                                                       |
| Generic name            | Essential oil of Mandarin obtained from the peel of Citrus nobilis, Rutaceae by expression and/or distillation, including cold-pressed, distilled, terpenes and essence qualities |
| Index-No annex VI       | —                                                                                                                                                                                 |
| CAS-No.                 | 8008-31-9                                                                                                                                                                         |
| EC-No.                  | 284-521-0                                                                                                                                                                         |
| EC CAS-No.              | 84929-38-4                                                                                                                                                                        |
| FEMA-No.                | 2657                                                                                                                                                                              |
| FDA-No.                 | 182.20                                                                                                                                                                            |
| CoE-No.                 | 142n                                                                                                                                                                              |
| REACH registration No.  | 01-2120074120-72-0024                                                                                                                                                             |

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

Raw material for the industry.

#### 1.3. Details of the supplier of the safety data sheet

|                                                                                         |                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name and full details                                                                   | ASTIER DEMAREST S.A.S<br>60, route de la Paoute<br>BP 51002 - Le Plan de Grasse<br>06131 GRASSE CEDEX<br>FRANCE<br>Tel / Ph +33.(0).4.93.40.56.56<br>contact@astierdemarest.com |
| E-mail adress of the person in charge of the writing of the material safety data sheets | reglementation@astierdemarest.com                                                                                                                                               |

#### 1.4. Emergency telephone number

UNITED KINGDOM

In England and Wales NHS 111 - dial 111

In Scotland NHS 24 - dial 111

IRELAND :

National Poisons Information Centre: 353 (1) 809 2166 (8.00 a.m.to 10.00 p.m. 7 days a week). Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

### 2. Hazards identification

#### 2.1. Classification of the substance or mixture

|  |                                                                                                                                                                                                                                                                          |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | [Flam. Liquid 3] : Flammable liquids - Category 3<br>[Skin Irrit. 2] : Skin irritation - Category 2<br>[Skin Sens. 1] : Skin sensitisation - Category 1<br>[Asp. Tox. 1] : Aspiration hazard - Category 1<br>[Aquatic Chronic 2] : Chronic aquatic toxicity - Category 2 |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 2.2. Label elements

|                   |                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms |     |
| Signal word       | Danger                                                                                                                                                                                                                                                                                                                                            |
| Hazard statements | [H226] : Flammable liquid and vapour.<br>[H304] : May be fatal if swallowed and enters airways.<br>[H315] : Causes skin irritation.<br>[H317] : May cause an allergic skin reaction.<br>[H411] : Toxic to aquatic life with long lasting effects.                                                                                                 |



## RED MANDARIN BRAZIL ORGANIC

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautionary statements</b> | <p>[P210] : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>[P233] : Keep container tightly closed.</p> <p>[P240] : Ground and bond container and receiving equipment.</p> <p>[P241] : Use explosion-proof [electrical/ventilating/lighting/...]equipment.</p> <p>[P242] : Use non-sparking tools.</p> <p>[P243] : Take action to prevent static discharges.</p> <p>[P261] : Avoid breathing dust/fume/ gas/mist/vapours/spray.</p> <p>[P264] : Wash peel thoroughly after handling.</p> <p>[P272] : Contaminated work clothing should not be allowed out of the workplace.</p> <p>[P273] : Avoid release to the environment.</p> <p>[P280] : Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/... (See MSDS)</p> <p>[P301+P310] : IF SWALLOWED: Immediately call a POISON CENTER/doctor/...</p> <p>[P303+P361+P353] : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].</p> <p>[P321] : Specific treatment (see ... on this label). (... Reference to supplemental first aid instruction. See MSDS)</p> <p>[P331] : Do NOT induce vomiting.</p> <p>[P333+P313] : If skin irritation or rash occurs: Get medical advice/attention.</p> <p>[P362+P364] : Take off contaminated clothing and wash it before reuse.</p> <p>[P370+P378] : In case of fire: Use ... for extinction. (See MSDS)</p> <p>[P391] : Collect spillage.</p> <p>[P403+P235] : Store in a well-ventilated place. Keep cool.</p> <p>[P405] : Store locked up.</p> <p>[P501] : Dispose of contents/container to gional/national/international regulation.</p> |
| <b>Additional Hazard class</b>  | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

### 2.3. Other hazards

|                                           |                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Results of PBT and vPvB assessment</b> | Does not meet the criteria to be qualified as persistent, bioaccumulative and toxic, or very persistent and very bioaccumulative according to Annex XIII of Regulation (EU) 1907/2006.                                                                                                                       |
| <b>Endocrine disrupting properties</b>    | Has not been listed pursuant to Article 59(1) of the REACH Regulation due to its endocrine disrupting properties, and is only known to have endocrine disrupting properties in accordance with the stated criteria in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. |
| <b>Other informations</b>                 | Not determined                                                                                                                                                                                                                                                                                               |

## 3. Composition/information on ingredients

### 3.1. Substances

|                                                                |                           |
|----------------------------------------------------------------|---------------------------|
| <b>Main constituent</b>                                        | Mandarin orange, extracts |
| <b>Other constituents (additives, stabilising additive...)</b> | —                         |

### 3.2. Mixtures / UVCB

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

| Name               | EC No        | CAS No    | CLP - Categories                                                                                         | CLP - Hazard Statement                       | Mini  | Maxi  |
|--------------------|--------------|-----------|----------------------------------------------------------------------------------------------------------|----------------------------------------------|-------|-------|
| alpha-Pinene       | 201-291-9    | 80-56-8   | Acute Tox. O 4<br>Skin Irrit. 2<br>Skin. Sens. 1B<br>Asp. Tox. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1 | H302<br>H315<br>H317<br>H304<br>H400<br>H410 | 2 %   | 3.5 % |
| alpha-Terpinene    | 601-095-00-7 | 99-86-5   | Acute Tox. O 4<br>Skin. Sens. 1<br>Asp. Tox. 1<br>Aquatic Chronic 2<br><br>Oral ETA = 1680 mg/kg pc      | H302<br>H317<br>H304<br>H411                 | 0 %   | 0.6 % |
| alpha-Terpinolene  | 209-578-0    | 586-62-9  | Skin. Sens. 1B<br>Asp. Tox. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1                                    | H317<br>H304<br>H400<br>H410                 | 0.5 % | 1.5 % |
| alpha-Thujene      | 220-686-7    | 2867-05-2 | Flam. Liquid 3<br>Skin. Sens. 1                                                                          | H226<br>H317                                 | 0 %   | 1 %   |
| beta-Caryophyllene | 201-746-1    | 87-44-5   | Skin. Sens. 1B<br>Asp. Tox. 1                                                                            | H317<br>H304                                 | 0 %   | 0.5 % |
| beta-Phellandrene  | 209-081-9    | 555-10-2  | Asp. Tox. 1<br>Skin Sens. 1                                                                              | H304<br>H317                                 | 0 %   | 1 %   |



## RED MANDARIN BRAZIL ORGANIC

|                 |              |           |                                                                                                             |                                              |      |        |
|-----------------|--------------|-----------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------|------|--------|
| beta-Pinene     | 204-872-5    | 127-91-3  | Flam. Liquid 3<br>Skin Irrit. 2<br>Skin Sens. 1B<br>Asp. Tox. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1     | H226<br>H315<br>H317<br>H304<br>H400<br>H410 | 1 %  | 2 %    |
| Dipentene       | 601-029-00-7 | 138-86-3  | Flam. Liq. 3<br>Skin Irrit. 2<br>Skin Sens. 1B<br>Aquatic Acute 1<br>Aquatic Chronic 1                      | H226<br>H315<br>H317<br>H400<br>H410         | 65 % | 75 %   |
| gamma-Terpinene | 202-794-6    | 99-85-4   | Flam. Liq. 3<br>Repr. 2<br>Asp. Tox. 1<br>Aquatic Chronic 2                                                 | H226<br>H361<br>H304<br>H411                 | 16 % | 22.5 % |
| Linalool        | 603-235-00-2 | 78-70-6   | Skin Sens. 1B                                                                                               | H317                                         | 0 %  | 0.2 %  |
| Myrcene         | 204-622-5    | 123-35-3  | Flam. Liq. 3<br>Skin Irrit. 2<br>Eye Irrit. 2<br>Asp. Tox. 1<br>Aquatic Acute 1<br>Aquatic Chronic 2        | H226<br>H315<br>H319<br>H304<br>H400<br>H411 | 0 %  | 5 %    |
| p-Cymene        | 601-094-00-1 | 99-87-6   | Flam. Liq. 3<br>Asp. Tox. 1<br>Acute Tox. I 3<br>Aquatic Chronic 2<br><br>Inhalation ETA = 3 mg/l (vapeurs) | H226<br>H331<br>H304<br>H411                 | 0 %  | 5 %    |
| Sabinene        | 222-212-4    | 3387-41-5 | Acute Tox. O 4                                                                                              | H302                                         | 0 %  | 1 %    |

### 4. First aid measures

#### 4.1. Description of first aid measures

|                     |                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin contact</b> | Remove contaminated clothing. Wash contaminated area with copious amounts of water and soap. Ask for medical advice if irritating.                                                                                                                                                                                                                                                                   |
| <b>Eye contact</b>  | Rinse immediately with plenty of water holding the eyelids apart. Consult a physician if irritation persists. For contact lens wearers: Rinse immediately with plenty of water. The lenses fall certainly during flushing. If this is not the case, remove if they can be easily removed. Do not give them and do not return the lens after the accident without the advice of your ophthalmologist. |
| <b>Ingestion</b>    | If the person is conscious, rinse mouth with water. DO NOT induce vomiting unless directed by medical personnel. Consult a doctor immediately. NEVER GIVE AN UNCONSCIOUS PATIENT WATER TO DRINK.                                                                                                                                                                                                     |
| <b>Inhalation</b>   | Place the patient to fresh air. If symptoms occur, consult a doctor. If unconscious, place in recovery position and get medical attention immediately.                                                                                                                                                                                                                                               |

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

For more details on the consequences in terms of health and symptoms, refer to Section 11.

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

In case of doubt or if symptoms persist, consult a doctor. Never give anything by mouth to an unconscious person. It is recommended that those providing first aid have a personal protective equipment. No action shall be taken in the absence of proper training.

### 5. Firefighting measures

#### 5.1. Extinguishing media

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| <b>Suitable extinguishing media</b>   | Carbon dioxide, dry chemical foam |
| <b>Unsuitable extinguishing media</b> | Direct stream of water.           |

#### 5.2. Special hazards arising from the substance or mixture

Possible production of toxic fumes in case of fire.

#### 5.3. Advice for firefighters

Avoid breathing vapors and smoke released. Use a mask if necessary. Do not attack the fire with water: water instead of stifling tends to fuel the fire some aromatic products such as essential oils have the ability to float on water. The fire spread so fast. Cool closed containers exposed to the heat of the fire by spraying water because the pressure can increase at high temperatures. To extinguish an incipient fire based essential oil, use a specific ABC powder fire extinguisher (or equivalent). If the fire is not important, it can be choked by covering with earth, sand or blanket.



## RED MANDARIN BRAZIL ORGANIC

### **6. Accidental release measures**

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

- For non-rescuers:

Wear appropriate personal protective equipment to prevent inhalation and contact with skin, eyes and personal clothing. Refer to section 8.  
Ensure sufficient ventilation. Remove all sources of ignition. NO SMOKING.  
Keep unprotected people away.

- For rescuers:

Wear personal protective equipment adapted to the chemical risk. Ensure sufficient ventilation. Remove all sources of ignition.  
Keep unprotected people away.

#### **6.2. Environmental precautions**

Avoid contamination of drains, surface water and groundwater. In case of environmental pollution (soil, drains, sewers, surface water or ground water), inform the competent authorities.

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

Large spillages should be contained with absorbent material, sand or inert powder, which will then be scanned and destroyed according to regulations as well as towels, sponges, etc.. used to absorb.

#### **6.4. Reference to other sections**

For personal protection, see section 8.

For waste disposal, see section 13.

### **7. Handling and storage**

#### **7.1. Precautions for safe handling**

Avoid contact with the product. (See individual protection measures in section 8.) Do not ingest the product. Keep away from food or drink. Do not smoke near. Do not breathe vapors plenty hot. During the incorporation of the product, it must be kept at relatively low temperatures. If necessary temperature rise, it must be provided within short time. Do not heat open flame, fumes or expose to flame or other sources of ignition (eg electrical equipment). An adequate ventilation is desirable. Observe the precautions required by the current hygiene.

#### **7.2. Conditions for safe storage, including any incompatibilities**

It is recommended to store in the original sealed packaging, away from heat and avoiding too large temperature differences. An adequate ventilation is desirable. Observe the precautions required by the current hygiene.

#### **7.3. Specific end use(s)**

Comply with the regulations, no specific recommendation.

### **8. Exposure controls/personal protection**

#### **8.1. Control parameters**

Not determined, refer to the regulations (occupational exposure limit values, Derived No-Effect Level DNEL, Predicted No-Effect Concentration PNEC)

#### **8.2. Exposure controls**

##### **- Appropriate engineering controls**

Maintain air concentrations below occupational exposure standards. Observe the normal safety precautions for the use of chemicals, ocular fountains and showers should be available nearby workstations.

##### **- Individual protection measures, such as personal protective equipment**

|                        |                                                                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye / face protection  | Safety glasses or goggles (EN 166)                                                                                                                                                                                 |
| Skin protection        | Protective work clothing, gloves resistant to chemicals (EN 374-1) protection. They must be replaced regularly and the first signs of damage. Wash hands before breaks and immediately after handling the product. |
| Respiratory protection | In well-ventilated areas, respiratory protection is not normally required. If this is not the case, a mask may be required unless otherwise stated in section 2.                                                   |
| Thermal hazards        | Always wear appropriate protective equipment and a self-contained breathing apparatus.                                                                                                                             |

##### **- Environmental exposure controls**

Refer to regulations.

### **9. Physical and chemical properties**



## RED MANDARIN BRAZIL ORGANIC

### 9.1. Information on basic physical and chemical properties

|                                              |                                                                                              |
|----------------------------------------------|----------------------------------------------------------------------------------------------|
| Physical state                               | Liquid                                                                                       |
| Colour                                       | Yellow to reddish orange                                                                     |
| Odour                                        | Characteristic of the fresh bark, sweet, candied fruit, tart                                 |
| pH                                           | Not determined                                                                               |
| Melting point/freezing point - °C            | Not determined                                                                               |
| Initial boiling point and boiling range - °C | 160                                                                                          |
| Flash point                                  | 51 °C 123 °F                                                                                 |
| Evaporation rate                             | Not determined                                                                               |
| Flammability (solid, gas)                    | Flammable liquid and vapour.                                                                 |
| Upper/lower flammability or explosive limits | Not determined                                                                               |
| Vapour pressure                              | 208.7 Pa at 25°C                                                                             |
| Vapour density                               | Not determined                                                                               |
| Relative density                             | Min 0.848 Max 0.854                                                                          |
| Solubility(ies)                              | Insoluble in water<br>Soluble in ethanol                                                     |
| Partition coefficient: n-octanol/water       | Log Kow : 4.38                                                                               |
| Auto-ignition temperature - °C               | 235°C @ 101 325 Pa                                                                           |
| Decomposition temperature - °C               | Not determined                                                                               |
| Viscosity                                    | Not determined                                                                               |
| Explosive properties                         | Product is not explosive. However, formation of explosive air / vapor mixtures are possible. |
| Oxidising properties                         | The substance does not contain chemical groups with oxidizing properties.                    |
| Particle characteristics                     | —                                                                                            |

### 9.2. Other information

—

## 10. Stability and reactivity

### 10.1. Reactivity

Does not present dangerous reactions under normal using conditions.

### 10.2. Chemical stability

Stable product in proper storage conditions.

### 10.3. Possibility of hazardous reactions

None according to our knowledge in the normal conditions of use.

### 10.4. Conditions to avoid

Prolonged or excessive heat and / or exposure to air can cause a non-hazardous decomposition and / or oxidation of the substance.

### 10.5. Incompatible materials

Avoid strong oxidants and acids.

### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

## 11. Toxicological informations

### Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                     |                            |
|---------------------|----------------------------|
| Acute toxicity oral | LD50 (rat) > 5000 mg/kg bw |
|---------------------|----------------------------|



## RED MANDARIN BRAZIL ORGANIC

|                                   |                                                                                                                                                                                                                                                                                                  |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity dermal             | LD50 (rabbit) > 5000 mg/kg bw                                                                                                                                                                                                                                                                    |
| Skin corrosion/irritation         | Causes skin irritation.                                                                                                                                                                                                                                                                          |
| Serious eye damage/irritation     | Not irritating                                                                                                                                                                                                                                                                                   |
| Respiratory or skin sensitisation | May cause an allergic skin reaction.                                                                                                                                                                                                                                                             |
| Germ cell mutagenicity            | Not determined                                                                                                                                                                                                                                                                                   |
| Carcinogenicity                   | Not determined                                                                                                                                                                                                                                                                                   |
| Reproductive toxicity             | Under the test conditions, the NOAEL for maternal toxicity was considered to be 591 mg/kg bw/day based on the deaths and decreased bodyweight gain.<br>The NOAEL for fetal toxicity was considered to be 591 mg/kg bw/day based on the delayed skeletal formation and decreased bodyweight gain. |
| STOT - single exposure            | Not determined                                                                                                                                                                                                                                                                                   |
| STOT - repeated exposure          | Not determined                                                                                                                                                                                                                                                                                   |
| Aspiration hazard                 | May be fatal if swallowed and enters airways.                                                                                                                                                                                                                                                    |

### 11.2. Information on other hazards

|                                 |                |
|---------------------------------|----------------|
| Endocrine disrupting properties | Not applicable |
| Other information               | Not determined |

## 12. Ecological informations

### 12.1. Ecological information

Toxic to aquatic life with long lasting effects.

EL50 (fish) > 100 mg / L

LC50 / EC50 (freshwater invertebrates) = 8.9 mg / L

EC50 (seaweed) = 9.7 mg / L

EC10 or NOEC (seaweed) = 7.8 mg / L

### 12.2. Persistence and degradability

Readily biodegradable

### 12.3. Bioaccumulative potential

Not determined

### 12.4. Mobility in soil

Not determined

### 12.5. Results of PBT and vPvB assessment

Not applicable

### 12.6. Endocrine disrupting properties

Not applicable

### 12.7. Other adverse effects

Not determined

## 13. Disposal considerations

### 13.1. Waste treatment methods

Prohibit the discharge into the natural environment (air, water, soil). Comply with applicable local regulations for disposal of waste and packaging. Use preferably a collector or an approved company. Keep (the) label (s) of contaminated packaging systematically. Empty packaging reuse

## 14. Transport informations

### 14.1. UN number

UN1197

### 14.2.A. UN proper shipping name in French

EXTRACTS, LIQUID



## RED MANDARIN BRAZIL ORGANIC

### 14.2.B. UN proper shipping name in English

EXTRACTS, LIQUID

### 14.3. Class

3

### 14.4. Packing group

III

### 14.5. Environmental hazards

The brand "dangerous substance for the environment" should be marked.

### 14.6. Special precautions for user

Road: refer ADR regulation, including the safety requirements of stakeholders (Section 1.4) and the provisions concerning loading, unloading and handling (Section 7.5).

Shipping: Please refer to the IMDG regulations.

Air transport refer to IATA regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

### 14.8. Other transport informations

|                            |                   |
|----------------------------|-------------------|
| Tunnel restriction No. ADR | (D/E)             |
| Packing instruction IATA   | 355               |
| EMS No.                    | F-E, S-D          |
| Labelling                  | 3 + poisson_arbre |



## 15. Regulatory informations

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

—

### 15.2. Chemical safety assessment

A chemical risk assessment is not required for this substance.

## 16. Other informations

Source : IFRA/IOFI Labeling Manual.

<https://chem.echa.europa.eu/>

This manual supplements the product data sheet but does not replace it. This information is correct to the best of our knowledge at the date indicated and are given in good faith. We shall not be held liable for use of the product for purposes other than those for which it is designed. This form does not exempt the user from knowing and applying all the regulations governing his activity. He will be the sole responsibility of the precautions related to his use of the product.

Full text of H-phrases mentioned in Section 3:

H302

Harmful if swallowed.

H319

Causes serious eye irritation.

H331

Toxic if inhaled.

H361

Suspected of damaging fertility or the unborn child.

H400

Very toxic to aquatic life.

H410

Very toxic to aquatic life with long lasting effects.

- Indication of where changes have been made to the previous version