*Issue date : 19 June 2018* 

#### **PRODUCT: MANDARIN OIL**

## Section 1.Identification of the substance or the mixture and of the supplier

## 1.1. Product Identifier

INCI name

Product identifier Mandarin Oil

Biological Definition Citrus Limon Peel Oil is the volatile oil

obtained fresh lemon peels. Citrus Reticulata Peel Oil

Synonyms and Trade Names Mandarin Oil

Botanical name Citrus Reticulata Blanco

CAS number 8008-31-9
EINECS number 284-521-0
FEMA number 2657
FDA number 182.2

FDA number 182.
CoE number 142
RIFM number 250

1.2. Relative identified uses of the substance or mixture and uses advised against Flavours and Fragrances: Use in accordance with good manufacturing and industrial hygiene practices. Not for personal use in this concentration.

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

Company name Agrumaria Corleone S.p.A.

Company address Via Salvatore Corleone, 12, 90124 - PALERMO Contact Dr.ssa Valeria Corleone - Quality Assurance

E-mail address vacorleone@agrumariacorleone.com

Company phone +39 (0) 916213933

1.4. Emergency telephone number

Office hours +39 (0) 916213933 Out of hours contact +39 (0) 916213933

#### Section 2. Hazard Identification

#### 2.1 Classification of the substance or mixture

The full text for the all hazard statements are displayed in section 16

Classification under Regulation (EC) N. 1272/2008

Class and category of danger Flammable liquid, category 3, H226

Aspiration Hazard, category 1, H304



Issue date: 19 June 2018

#### PRODUCT: MANDARIN OIL

Skin irritation/corrosion, category 2, H315 Skin sensitization, category 1, H317 Aquatic Acute hazard, category 1, H400 Aquatic Chronic hazard, category 1, H411

## Classification under Directive 67/548/EEC

Hazard symbols

Xn - Harmful

N - Dangerous for the environment

#### 2.2 Label elements

Label in accordance with (EC) N. 1272/2008

GHS02	GHS08	GHS07	GHS09
144			3K

Signal word Contains

Hazard statement

Danger

Limonene, alfa-Pinene, Myrcene, beta-

Pinene, Linalool

H226, flammable liquid and vapour

H304, May be fatal if swallowed and enters

airways

H315, cause skin irritation

H317, may causes an allergic skin reaction

H400, very toxic to aquatic life

H411, Toxic to aquatic life with long-lasting

effects

P210, keep away from heat, sparks, open

flames and hot

surface. No smoking

P233, keep container tightly closed

P240 , Ground/bond container and receiving

equipment

**Precautionary statements** 



*Issue date : 19 June 2018* 

#### PRODUCT: MANDARIN OIL

P241, Use explosion-proof electrical/ventilating/light equipment P242, Use only non-sparking tools P243, Take precautionary measures against static discharge P261, Avoid breathing dust/fume/gas/mist/vapours/spray P264. Wash hands and other contacted skin thoroughly after handling P272, Contaminated work clothing should not be allowed out of the workplace P273, Avoid release to the environment P280, Wear protective gloves/clothing, eye/face protection P301/310, IF SWALLOWED: immediately call a POISON CENTER or doctor/physician P303/361/353, IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P331, Do NOT induce vomiting P333/313, If skin irritation or a rash occurs: Get medical /attention P362, Take off contaminated clothing and wash before reuse P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction P391, Collect spillage P403/235, store in well ventilated place. keep cool P405, Store locked up P501, dispose of contents/container to approved disposal site, in accordance with local regulations

#### 2.3 Other Hazards

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



Issue date: 19 June 2018

#### PRODUCT: MANDARIN OIL

Section 3. Composition/Information on ingredients

#### 3.1 Substances

< 80.0 % D-Limonene CAS-No: 5989-27-5 EC No.: 227-813-5

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317

Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H411

< 3.0% α-Pinene CAS-No: 80-56-8 EC No.: 201-291-9

Classification (EC 1272/2008): Flam. Lig. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317

Asp. Tox. 1 - H304

< 2.5 % Myrcene (7-methyl-3-methyleneocta-1,6-diene) CAS-No: 123-35-3 EC No.: 204-622-5 Classification (EC 1272/2008): Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319 Asp.

Tox. 1 - H304

< 0.5 % Decanal CAS-No: 112-31-2 EC No.: 203-957-4

Classification (EC 1272/2008): Skin Irrit. 2 - H315, Acquatic Chronic 3 - H412

< 0.5% Linalool CAS-No: 78-70-6 EC No.: 201-134-4 Classification (EC 1272/2008): Skin Irrit. 2 - H315

#### Section 4. First-aid measures

## 4.1 Description of first aid measures

Inhalation Remove from exposure area to fresh air and

immediately obtain medical advice.

Ingestion Wash mouth out with water and immediately

obtain medical advice. DO NOT INDUCE

**VOMITING!** 

Skin Contact Take off clothing and wash immediately with

soapy water. Seek medical advice if irritation persists of there is any sign of skin damage. Rinse thoroughly with water for at least 15

minutes. Remove contact lenses. Seek

medical advice.

Eyes Contact

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

May be fatal if swallowed and enters airways

*Issue date : 19 June 2018* 

## **PRODUCT: MANDARIN OIL**

Causes skin irritation, can cause bloodshot eyes May cause an allergic skin reaction For inhalation can cause slight headache

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

Immediate medical assistance: see section 4.1 for further information Immediate special treatment: see section 4.1 for further information

First aid specific means : eye wash fountains/safety shower should be available in the work

area

## Section 5. Firefighting measures

## 5.1 Extinguishing media

#### Suitable extinguishing media:

Small fire: Use carbon dioxide, dry chemical, foam. Spray to base of flames.

Large fire: Use water spray or fog. Cool containers with a water jet to prevent pressure build up, autoignition or explosion.

## Unsuitable extinguishing media:

Pressurised water jet.

## 5.2 Special hazards arising from the substance or mixture

Vapour may form an explosive mixture with air. In case of fire, Carbon monoxide, Carbon dioxide, smoke and soot may be liberated.

## 5.3 Advice for fire fighters

Standard procedure for chemical fires. Spray extinguishing media to base of flames. Wear protective clothing. Avoid inhalation of vapours. Wear suitable respiratory equipment . In case of ignition , cool the endangered containers .

#### Section 6. Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2 Environmental precautions

Do not allow to enter canals, waterways, groundwater, soil.

#### 6.3 Methods and materials for containment and cleaning up

Remove ignition sources and provide adequate ventilation . Soak up with absorbent , inert material , or sand . Wash with water and detergent .



Issue date: 19 June 2018

#### **PRODUCT: MANDARIN OIL**

## **6.4** Reference to other sections

Please refer to section 4,8 and 13.

## Section 7. Handling and storage

## 7.1 Precautions for safe handling

Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Keep original container closed. Avoid contact with skin and eyes. Observe good personal hygiene, and do not eat, drink or smoke whilst handling. Keep away from heat, sparks and open flame. Avoid exposing to high temperatures during processing.

## 7.2 Conditions for safe storage, including any incompatibilities

To be stored in tightly closed containers, preferably under an inert atmosphere (e.g. nitrogen) with minimum head space protected from daylight. Store in a dry, aerated place (between 0 - 25°C) away from heat and ignition sources.

## 7.3 Specific end uses

Flavours and Fragrances according to good manufacturing and industrial hygiene practices.

## Section 8. Exposure controls/personal protection

#### 8.1 Control parameters

No additional data available

#### 8.2 Exposure controls

#### **Protective Equipment**



Process Conditions Engineering Measures Provide eyewash station. Provide adequate ventilation Avoid static discharges in working area.



*Issue date : 19 June 2018* 

#### **PRODUCT: MANDARIN OIL**

Respiratory Equipment Avoid breathing vapours. Respiratory

equipment should not be necessary with

adequate

Hand Protection Avoid all skin contact. Wear chemical

resistant gloves (PVC) tested to EN374.

Skin Protection Wear apron or protective clothing in case of

splashes.

Eye Protection Avoid contact with eyes. Wear approved

safety goggles with built in frame tested to

EN166.

Other Protection No additional data available.

Hygiene Measures Good personal hygiene practices are always

advisable, especially when working with chemicals /oils. Keep away from foodstuffs,

beverages

Environmental Exposure Controls Avoid discharging into drainage water. Only

eliminate by authorized companies.

## Section 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Appearance Red liquid

Odour Characteristic of mandarin

Odour threshold Not determined Not applicable Melting point/Freezing point No data available

Initial boiling point and range 178.00 °C. @ 760.00 mm Hg

Flash point  $49^{\circ}$ C Evaporation rate (vs  $H_2$ O) < 1

Upper/lower flammability Not data available

Vapour pressure 0.95 mm/Hg @ 25.00 °C

Vapour density > 1

*Relative density* 0,84 - 0.87 gr/ml @ 25.00 °C

Solubility Not soluble in water Partition coefficient n-octanol/water Not data available

Auto-ignition temperature

Decomposition temperature

Viscosity

Not data available

Not data available

Explosive properties

Oxidizing properties

Not data available

Not data available

Issue date: 19 June 2018

#### **PRODUCT: MANDARIN OIL**

## 9.2 Other Information

Not available

#### Section 10. Stability and reactivity

## 10.1 Reactivity

Not present important reactivity hazard

#### 10.2 Chemical stability

Stable at normal conditions of storage

## 10.3 Possibility of hazardous reactions

Not expected at normal conditions of use

## 10.4 Conditions to avoid

Excessive heat, flames

#### 10.5 Incompatible materials

Acids, Alkalis, oxidising agents

## 10.6 Hazardous decomposition products

Not expected under normal temperature conditions and recommended use.

#### Section 11. Toxicological Information

## 11.1 Information of toxicological effects

Acute Dermal Toxicity LD50 [Rat]
Acute Oral Toxicity LD50 [Rat]
Acute Inhalation LD50 [Rat]
Skin Corrosion/irritation
Serious eye damages/irritation
Respiratory or skin sensitisation
Germ cell mutagenicity
Carcinogenicity

Reproductive toxicity
STOT-single exposure
Aspiration hazard

STOT-Repeated exposure

Photo-toxicity

>2000 mg/kg

>5000 mg/kg

>5000 mg/kg

Causes skin irritation (H315)

Not classified as irritating today (source CSR) May cause an allergic skin reaction (H317)

Negative (sources CSR)

No additional data available
No tested (sources CSR)
No additional data available

No additional data available

May be fatal if swallowed and enters airways

(H304)

No additional data available



*Issue date : 19 June 2018* 

#### **PRODUCT: MANDARIN OIL**

Section 12. Ecological information

## 12.1 Toxicity

The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

#### 12.2 Persistence and degradability

To be considered as readily biodegradable based on its ready biodegradability. Oil does not fulfil the criteria for persistence.

## 12.3 Bioaccumulative potential

H411 Toxic to aquatic life with long-lasting effects.

## 12.4 Mobility in soil

Considered as a readily biodegradable NCS. Based on the ready biodegradability of the NCS, simulation tests in surface water, sediment and soil are not required in accordance with column2 of REACH Annex IX.

## 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

#### 12.6 Other adverse effects

Do not discharge into the environment especially not into waterways, sewers and the sea.

## Section 13. Disposal considerations

#### 13.1 Waste treatment methods

Dispose in accordance with federal, state or local environmental regulations. Contact a licensed professional waste disposal service to dispose of empty containers, that should be taken to an approved waste handling site for recycling or disposal.

#### Section 14. Transport Information

#### 14.1 UN number

UN No. Road/Sea/Air : UN 1169

## 14.2 UN Proper Shipping Name

EXTRACTS, AROMATIC, LIQUID

#### 14.3 Transport hazard class

ADR/RID/Class 3 Flammable liquid IMDG Class 3 Flammable liquid ICAO Classe/Division 3 Flammable liquid

*Issue date : 19 June 2018* 

#### **PRODUCT: MANDARIN OIL**

**Transport Labels** 



## 14.4 Packaging group

ADR/RID/AND Packing Group III IMDG Packing Group III ICAO Packing Group III

## 14.5 Environmental hazards

Environmentally hazardous substances/Marine pollutant



#### 14.6 Special precautions for user

This product contains flammables and dangerous for the environment. In case on pouring out, make sure label new packaging accordingly. Reproducing original label with relevant symbols.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not additional data available

## Section 15. Regulatory Information

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

#### **Statutory Instruments**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

#### **Guidance Notes**

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).



Issue date: 19 June 2018

#### PRODUCT: MANDARIN OIL

**EU** Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization 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 available

#### Section 16. Other Information

## Hazard and/or precautionary

Statements in full H226, flammable liquid and vapour

H304, May be fatal if swallowed and enters

airways

H315, cause skin irritation

H317, may causes an allergic skin reaction H411, Toxic to aquatic life with long-lasting

effects

Other information Complies with REACH guidance for SDS as

circulated by ECHA 2011.

**Revision Date** 

19 June 2018 1st SDS format Reason of Revision

The information provided in this safety data sheet is correct to the best of our knowledge. Furthermore, the information quoted is intended only as guidance for safe handling, use, processing, storage, transportation, disposal and is not to be considered as a warranty or quality specification.