

**PRODUCT: MANDARIN OIL ALCOHOL EXTRACT**

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

**1.1. Product Identifier**

<i>Product identifier</i>	Alcohol Extract of Mandarin Oil
<i>Biological Definition</i>	Citrus Reticulata peel extract is a volatile oil obtained from citrus sinensis peels
<i>INCI name</i>	Citrus Reticulata peel extract
<i>Synonyms and Trade Names</i>	Alcohol Extract of Mandarin Oil
<i>Botanical name</i>	Citrus Reticulata Blanco
<i>CAS number</i>	64-17-5
<i>EINECS number</i>	Not Listed
<i>FEMA number</i>	Not Listed
<i>FDA number</i>	Not Listed
<i>CoE number</i>	Not Listed
<i>RIFM number</i>	Not Listed

**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**

<i>Company name</i>	Agrumaria Corleone S.p.A.
<i>Company address</i>	Via Salvatore Corleone, 12, 90124 - PALERMO
<i>Contact</i>	Dr.ssa Valeria Corleone - Quality Assurance
<i>E-mail address</i>	vacorleone@agrumariacorleone.com
<i>Company phone</i>	+39 (0) 916213933

**1.4. Emergency telephone number**

<i>Office hours</i>	+39 (0) 916213933
<i>Out of hours contact</i>	+39 (0) 916213933

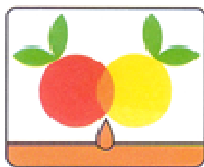
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**Section 2. Hazard Identification**

**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**



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*Class and category of danger*

Flammable liquid , category 2 , H225  
Aspiration Hazard , category 1 , H304  
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



*Signal word*

*Contains*

*Hazard statement*

*Precautionary statements*

Danger

Ethanol, Limonene, alfa-Pinene, Myrcene,  
beta-Pinene, Linalool

H225 , 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

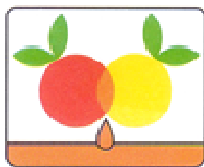
H411 , Toxic to aquatic life with long-lasting  
effects

P210 , keep away from heat, sparks, open  
flames and hot

surface. No smoking

P233 , keep container tightly closed

P240 , Ground/bond container and receiving



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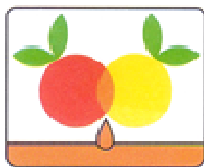
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equipment  
P241 , Use explosion-proof electrical/ventilating/light equipment  
P242 , Use only non-sparking tools  
P243 , Take precautionary measures against static discharge  
P261 , Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 , Wash 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 : No additional data available.  
Adverse physio-chemical properties : No additional data available.  
Adverse effects on human health : No additional data available.



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**Section 3. Composition/Information on ingredients**

**3.1 Substances**

58 - 65% Ethanol; CAS-No: 64-17-5 EC No.: 200-578-6 Classification (EC 1272/2008): Flam. Liq. 2 - H225
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**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 or there is any sign of skin damage.

***Eyes Contact***

Rinse thoroughly with water for at least 15 minutes. Remove contact lenses. Seek medical advice.

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

May be fatal if swallowed and enters airways

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

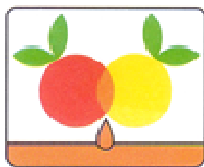
First aid specific means : eye wash fountains/safety shower should be available in the work area

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**Section 5. Firefighting measures**

**5.1 Extinguishing media**

Suitable extinguishing media :



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*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 .

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**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 .

**6.4 *Reference to other sections***

Please refer to section 4,8 and 13 .

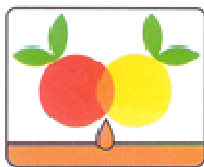
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**Section 7. Handling and storage**

**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***



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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 .

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

**8.1 Control parameters**

No additional data available

**8.2 Exposure controls**

**Protective Equipment**



**Process Conditions**

**Engineering Measures**

**Respiratory Equipment**

**Hand Protection**

**Skin Protection**

**Eye Protection**

**Other Protection**

**Hygiene Measures**

Provide eyewash station.

Provide adequate ventilation Avoid static discharges in working area.

Avoid breathing vapours. Respiratory equipment should not be necessary with adequate

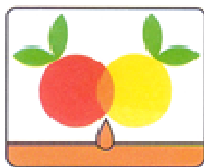
Avoid all skin contact. Wear chemical resistant gloves (PVC) tested to EN374.

Wear apron or protective clothing in case of splashes.

Avoid contact with eyes. Wear approved safety goggles with built in frame tested to EN166.

No additional data available.

Good personal hygiene practices are always advisable, especially when working with chemicals /oils. Keep away from foodstuffs,



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*Environmental Exposure Controls* beverages  
Avoid discharging into drainage water. Only eliminate by authorized companies.

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**Section 9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<i>Appearance</i>	From colourless to pale yellow
<i>Odour</i>	Characteristic of orange
<i>Odour threshold</i>	Not determined
<i>pH</i>	Not applicable
<i>Melting point/Freezing point</i>	No data available
<i>Initial boiling point and range</i>	No data available
<i>Flash point</i>	22 °C
<i>Evaporation rate ( vs H<sub>2</sub>O)</i>	No data available
<i>Upper/lower flammability</i>	Not data available
<i>Vapour pressure</i>	No data available
<i>Vapour density</i>	No data available
<i>Relative density</i>	0,90 - 0.92 gr/ml @ 25.00 °C
<i>Solubility</i>	Partially soluble in water
<i>Partition coefficient n-octanol/water</i>	Not data available
<i>Auto-ignition temperature</i>	Not data available
<i>Decomposition temperature</i>	Not data available
<i>Viscosity</i>	Not data available
<i>Explosive properties</i>	Not data available
<i>Oxidizing properties</i>	Not data available

**9.2 Other Information**

Not available

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**Section 10. Stability and reactivity**

**10.1 Reactivity**

Not present important reactivity hazard

**10.2 Chemical stability**

Stable at normal conditions of storage

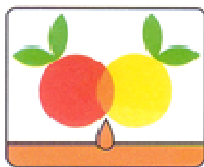
**10.3 Possibility of hazardous reactions**

Not expected at normal conditions of use

**10.4 Conditions to avoid**

Excessive heat , flames





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**10.5 Incompatible materials**

Acids , Alkalis , oxidising agents

**10.6 Hazardous decomposition products**

Not expected under normal temperature conditions and recommended use.

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**Section 11. Toxicological Information**

**11.1 Information of toxicological effects**

<i>Acute Dermal Toxicity LD50 [Rat]</i>	>5000 mg/kg
<i>Acute Oral Toxicity LD50 [Rat]</i>	>5000 mg/kg
<i>Acute Inhalation LD50 [Rat]</i>	>5000 mg/kg
<i>Skin Corrosion/irritation</i>	Causes skin irritation ( H315 )
<i>Serious eye damages/irritation</i>	Not classified as irritating today (source CSR)
<i>Respiratory or skin sensitisation</i>	May cause an allergic skin reaction (H317)
<i>Germ cell mutagenicity</i>	Negative (sources CSR)
<i>Carcinogenicity</i>	No additional data available
<i>Reproductive toxicity</i>	No tested (sources CSR)
<i>STOT-single exposure</i>	No additional data available
<i>Aspiration hazard</i>	No additional data available
<i>STOT-Repeated exposure</i>	May be fatal if swallowed and enters airways (H304)
<i>Photo-toxicity</i>	No additional data available

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**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**

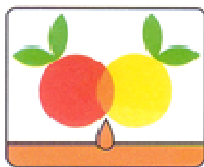
To be considered as readily biodegradable based on its ready biodegradability. Oil does not fulfil the criteria for persistence.

**12.3 Bioaccumulative potential**

H411 Toxic to aquatic life with long-lasting effects.

**12.4 Mobility in soil**





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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 column 2 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.

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**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.

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**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

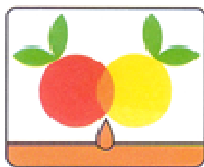
**Transport Labels**



***14.4 Packaging group***

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

***14.5 Environmental hazards***



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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

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**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).

***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**

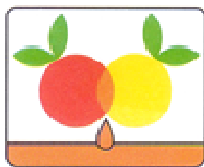
No additional data available

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**Section 16. Other Information**

***Hazard and/or precautionary  
Statements in full***

H225 , flammable liquid and vapour



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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

*Reason of Revision*

1st SDS format

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.