

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

CLEMENTINE OIL

Version	Revision Date:	SDS Number:	Date of last issue: 20.06.2018
1.2	13.07.2018	000000000551	Date of first issue: 04.04.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : CLEMENTINE OIL
Substance name : Mandarin orange, oil
CAS-No. : 8008-31-9
EC-No. : 284-521-0

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

Use of the Sub-
stance/Mixture : Raw material used in flavoring preparations and/or perfumery.
Recommended restrictions
on use : Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet

Company : INDUKERN S.A.
C/ Alta Ribagorça, 6-8
08820 El Prat del Llobregat. Barcelona
Telephone : +34935069100
Telefax : +34935069199
E-mail address of person
responsible for the SDS : indukern@indukern.es
Web : www.indukern.es

1.4 Emergency telephone number

+34 704 1000 87 (24h)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 3 H226: Flammable liquid and vapour.
Skin irritation, Category 2 H315: Causes skin irritation.

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Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.
Chronic aquatic toxicity, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements :

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

cis-ocimene (z-3,7-dimethyl-1,3,6-octatriene) / (r)-p-mentha-1,8-diene,d-limonene

Additional Labelling:

EUH208 Contains citral. May produce an allergic reaction.
 EUH208 Contains alpha-pinene. May produce an allergic reaction.
 EUH208 Contains beta-pinene. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients**3.1 Substances**

UVCB (Substance of Unknown or Variable composition, Complex reaction products or Biological materials).

Hazardous components

Identifier	Chemical name	Concentration (% w/w)	Classification	Concentration limits
Index-No.: 601-029-00-7 CAS-No.: 5989-27-5 EC-No.: 227-813-5	cis-ocimene (z-3,7-dimethyl-1,3,6-octatriene) / (r)-p-mentha-1,8-diene,d-limonene	90 - 100	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	-
CAS-No.: 123-35-3 EC-No.: 204-622-5	7-methyl-3-methyleneocta-1,6-diene / (r)-p-mentha-1,8-diene,d-limonene	1 - 5	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Asp. Tox. 1; H304	-
CAS-No.: 99-85-4 EC-No.: 202-794-6	gamma-terpinene	1 - 10	Flam. Liq. 3; H226 Asp. Tox. 1; H304	-
CAS-No.: 80-56-8 EC-No.: 201-291-9	alpha-pinene	0.25 - 1	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	-
Index-No.: 605-019-00-3 CAS-No.: 5392-40-5 EC-No.: 226-394-6	citral	0.1 - 1	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	-
CAS-No.: 127-91-3 EC-No.: 204-872-5	beta-pinene	0.1 - 0.25	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	-

3.2 Mixtures

Not applicable

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures**4.1 Description of first aid measures**

- General advice : Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes skin irritation.
May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : May release toxic, irritating and/or corrosive gases.
- Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions : Dangerous for the environment

Should not be released into the environment.

Try to prevent the material from entering drains or water courses.

Do not allow contact with soil, surface or ground water.

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Handling and storage. See chapter 7.
Exposure controls/personal protection. See chapter 8.
Disposal considerations. See chapter 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.

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Advice on common storage : No materials to be especially mentioned.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Raw material used in flavoring preparations and/or perfumery.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
cis-ocimene (z-3,7-dimethyl-1,3,6-octatriene) / (r)-p-mentha-1,8-diene, d-limonene	Workers	Inhalation	Long-term systemic effects	33.3 mg/m ³
7-methyl-3-methyleneocta-1,6-diene / (r)-p-mentha-1,8-diene, d-limonene	Workers	Inhalation	Long-term systemic effects	5.83 mg/m ³
citral	Workers	Inhalation	Long-term systemic effects	9 mg/m ³
beta-pinene	Workers	Inhalation	Long-term systemic effects	5.98 mg/m ³
alpha-pinene	Workers	Inhalation	Long-term systemic effects	5.98 mg/m ³

8.2 Exposure controls

Concentration	100%
Uses:	Raw material used in flavoring preparations and/or perfumery.
Respiratory protection:	
PPE:	Self-filtering mask for vapours.
Characteristics:	«CE» marking, category III. Made of filtering material, it covers nose, mouth and chin.
CEN standards:	EN 405
Maintenance:	Check for any tears, defects, etc. before use. Since it is disposable individual protection equipment, it should be replaced after use.
Remarks:	Does not protect worker unless properly adjusted. Follow the manufacturer's instructions regarding suitable use of the equipment.




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Hand protection:		
PPE:	Protective gloves.	
Characteristics:	«CE» marking, category II.	
CEN standards:	EN 374-1, EN 374-2, EN 374-3, EN 420	
Maintenance:	They should be kept in a dry place, away from possible sources of heat, and exposure to sunlight should be avoided as much as possible. Changes that could alter the gloves' resistance should not be made, nor should paints solvents or adhesives be applied.	
Remarks:	They should be replaced whenever tears, cracks or deformations are found and when external dirt may reduce their resistance. The gloves should be of the correct size and fit the hand without being too loose or too tight. They must always be used with clean, dry hands.	
	NITRILE: The list of chemical products against which the glove has been tested should be reviewed.	
Eye protection:		
PPE:	Safety glasses.	
Characteristics:	Category II CE marking. Eye protector against dust, fumes, mists, vapours and splashes.	
CEN standards:	EN 166	
Maintenance:	Visibility through the glasses must be optimal, so the lenses must be cleaned daily. The protectors must be disinfected periodically following the manufacturer's instructions. The smoothness of the moving parts should be checked.	
Remarks:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.	
Skin protection:		
PPE:	Anti-static protective clothing.	
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.	
CEN standards:	EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5	
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.	
Remarks:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.	

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PPE:	Anti-static safety footwear against chemicals.	
Characteristics:	«CE» marking, category III. Check the list of chemicals against which the footwear is resistant.	
CEN standards:	EN ISO 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN ISO 20345	
Maintenance:	For correct maintenance of this safety footwear, the instructions specified by the manufacturer must be followed. The footwear must be replaced in the event of any sign of deterioration.	
Remarks:	The footwear should be cleaned regularly and dried when damp, although it should not be placed too close to a source of heat in order to avoid any sharp changes in temperature.	

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	: LIQUID
Colour	: REDDISH ORANGE
Odour	: FRESH, CITRUS
Odour Threshold	: N.A./N.A.
pH	: N.A./N.A.
Melting point/freezing point	: N.A./N.A.
Boiling point	: N.A./N.A.
Flash point	: 45 °C
Evaporation rate	: N.A./N.A.
Flammability (solid, gas)	: N.A./N.A.
Upper explosion limit	: N.A./N.A.
Lower explosion limit	: N.A./N.A.
Vapour pressure	: N.A./N.A.
Relative vapour density	: N.A./N.A.
Relative density	: 0,846 - 0,852
Density	: 0,840 - 0,860 g/cm ³
<u>Solubility(ies)</u>	
Water solubility	: N.A./N.A.
Solubility in other solvents	: N.A./N.A.

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Partition coefficient: n-octanol/water : N.A./N.A.

Auto-ignition temperature : N.A./N.A.

Decomposition temperature : N.A./N.A.

Viscosity

Viscosity, dynamic : N.A./N.A.

Viscosity, kinematic : N.A./N.A.

Explosive properties : N.A./N.A.

Oxidizing properties : N.A./N.A.

9.2 Other information

No data available

N.A./N.A.= Not available / Not applicable due to the nature of the product.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No decomposition if used as directed. No decomposition if stored normally.

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SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Not classified based on available information.

Components:**cis-ocimene (z-3,7-dimethyl-1,3,6-octatriene) / (r)-p-mentha-1,8-diene,d-limonene:**

Acute oral toxicity : LD50 Oral (Mouse): 5,600 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Not classified based on available information.

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks: No data available

SECTION 12: Ecological information**12.1 Toxicity**

No data available

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12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects**Product:**

Additional ecological information : No data available

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information**14.1 UN number**

ADR : UN 1169

RID : UN 1169

IMDG : UN 1169

IATA : UN 1169

14.2 UN proper shipping name

ADR : EXTRACTS, AROMATIC, LIQUID

RID : EXTRACTS, AROMATIC, LIQUID

IMDG : EXTRACTS, AROMATIC, LIQUID

IATA : Extracts, aromatic, liquid

14.3 Transport hazard class(es)

ADR : 3

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RID : 3
IMDG : 3
IATA : 3

14.4 Packing group**ADR**

Packing group : III
 Classification Code : F1
 Hazard Identification Number : 30
 Labels : 3
 Tunnel restriction code : (D/E)

RID

Packing group : III
 Classification Code : F1
 Hazard Identification Number : 30
 Labels : 3

IMDG

Packing group : III
 Labels : 3
 EmS Code : F-E, S-D

IATA (Cargo)

Packing instruction (cargo aircraft) : 366
 Packing instruction (LQ) : Y344
 Packing group : III
 Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft) : 355
 Packing instruction (LQ) : Y344
 Packing group : III
 Labels : Flammable Liquids

**14.5 Environmental hazards****ADR**

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

Not applicable

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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

International Chemical Weapons Convention (CWC)
Schedules of Toxic Chemicals and Precursors : Not applicable

REACH - Restrictions on the manufacture, placing on
the market and use of certain dangerous substances,
preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High
Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation
(Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that de-
plete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pol-
lutants : Not applicable

Regulation (EC) No 649/2012 of the European Parlia-
ment and the Council concerning the export and import
of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of
major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5,000 t	50,000 t

E1	ENVIRONMENTAL HAZARDS	100 t	200 t
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Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial
emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 97.25 %, 836.35
g/l
Remarks: VOC content excluding water

Directive 2010/75/EU of 24 November 2010 on industrial
emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 97.25 %, 836.35
g/l
Remarks: VOC content valid only for coating materials used
on wood surfaces

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Check:

- REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products
- REGULATION (EC) No 273/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 February 2004 on drug precursors
- REGULATION (EU) No 98/2013 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 January 2013 on the marketing and use of explosives precursors

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

GB / EN