

CEDRAT OIL ITALY
Ref. 16980

Version 5RME07 (Revision Number: 5 - Revision Date: July 13, 2023)

Page 1/6

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING
1.1 Product identifier

product trade name: **Cedrat Oil Italy - Ref. 16980**
 EC name/registration name: Citrus medica, ext.
 EC number: 285-359-3
 CAS number (EC inventory): 85085-28-5
 REACH Registration Number: exempt - [flavours use]

1.2 Relevant identified uses of the substance and uses advised against

relevant uses: flavouring agent - ingredient for industrial manufacturing.
 uses advised against: not for personal use in this form or concentration.

1.3 Details of the supplier of the safety data sheet

company: CAPUA 1880 s.r.l. - Zona Industriale, 89052 Campo Calabro (RC) - ITALY • www.webcapua.com
 telephone number: phone: +390965793901 • fax: +390965797111/757792
 responsible person: Dr. Gianfranco Capua (CEO) • phone: +3909657939236 • mail: sales@webcapua.com
 manufacturing plant: Zona Industriale, 89052 Campo Calabro (RC) - ITALY
 competent person SDS: mail: legis@webcapua.com

1.4 Emergency telephone number

supplier: 9:30÷17:03: +390965793901 (languages: IT, EN, FR, DE, ES) • other time: +393483852033 (languages: IT, EN, FR).
 poison control center: Azienda Ospedaliera Niguarda Ca' Granda (MILANO - ITALY) +390266101029 (languages: IT, EN).

2. HAZARDS IDENTIFICATION
2.1 Classification of the substance

Reg. (EC) No 1272/2008:	Flam. Liq. 3	Asp. Tox. 1	Skin Irrit. 2	Skin Sens. 1	Aquatic Chronic 2
hazard categories:	FL3	AH1	SCI2	SS1	EHC2
hazard statements:	H226	H304	H315	H317	H411
hazard pictograms:	GHS02	GHS08	GHS07		GHS09

2.2 Label elements

hazard pictograms:



signal word: danger
 hazard statements: H226, H304, H315, H317, H411
 precautionary statement: P210, P241, P262, P273, P280, P301/310, P303/361/353, P331, P405, P501

2.3 Other hazards

Ecological information:

according to Annex XIII of REACH Regulation, the substance contains no constituent considered either Persistent, Bioaccumulative and Toxic (PBT), or very Persistent and very Bioaccumulative (vPvB) at a concentration equal to or greater than 0.1%.

The substance contains no constituent identified as having endocrine disrupting properties according to REACH Article 59(1) or in accordance with the criteria set out in Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

Toxicological information:

the substance contains no constituent identified as having endocrine disrupting properties according to REACH Article 59(1) or Commission Delegated regulation (EU) 2017/2100 at a concentration equal to or greater than 0.1%.

3. COMPOSITION/INFORMATION ON INGREDIENTS
3.1 Substance

botanical origin: *Citrus medica*, (L)
 production process: obtained by physical means from the outer part of fresh cedrat fruits peel.
 status: 100% Natural Complex Substance
 EC name: Citrus medica, ext.
 EC number: 285-359-3
 CAS number (EC inventory): 85085-28-5
 other CAS number: 68991-25-3

3.1.1 Substance: main constituents & typical values

common name	EINECS	CAS	hazards classification	content (%)
limonene	227-813-5	5989-27-5	Flam. Liq. 3;H226 Skin Irrit. 2;H315 Skin Sens. 1B;H317 Asp. Tox. 1;H304 Aquatic Acute 1;H400 Aquatic Chronic 3;H412	≤62.00
γ-terpinene	202-794-6	99-85-4	Skin Irrit. 3;H316 Repr. 2;H361 Flam. Liq. 3;H226 Asp. Tox. 1;H304 Acute Tox. 5 (Oral);H303	≤25.00
β-pinene	204-872-5	127-91-3	Flam. Liq. 3;H226 Skin Irrit. 2;H315 Skin Sens. 1B;H317 Asp. Tox. 1;H304 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	≤12.00
citral	226-394-6	5392-40-5	Acute Tox. 5 (Dermal);H313 Skin Irrit. 2;H315 Eye Irrit. 2A;H319 Skin Sens. 1;H317 Aquatic Acute 2;H401	≤6.00

CEDRAT OIL ITALY
Ref. 16980

Version 5RME07 (Revision Number: 5 - Revision Date: July 13, 2023)

Page 2/6

α-pinene	201-291-9	80-56-8	Flam. Liq. 3;H226 Acute Tox. 4 (Oral);H302 Skin Irrit. 2;H315 Skin Sens. 1B;H317 Asp. Tox. 1;H304 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	≤3.00
myrcene	204-622-5	123-35-3	Flam. Liq. 3;H226 Skin Irrit. 2;H315 Eye Irrit. 2A;H319 Asp. Tox. 1;H304 Aquatic Acute 1;H400 Aquatic Chronic 2;H411	≤2.00

4. FIRST AID MEASURES
4.1 Description of first aid measures

inhalation: move to fresh air for at least 15 minutes, in case of complaints seek medical attention.
 contact with the skin: remove contaminated clothing and wash with water and soap the contaminated part - make sure you have eliminated the contamination - in case of complaints seek medical attention.
 contact with the eyes: abundant eye-wash for several minutes with pure water, make sure you have eliminated the contamination - in case of persistent eye irritation seek medical attention.
 ingestion: ask **immediately** medical assistance - mouth washing with water and **do not provoke vomiting**.

4.2 Most important symptoms and effects, both acute and delayed

symptoms: inhalation: can cause slight headache - contact: can cause eye irritation - can cause slight skin rash.
 acute and delayed effects: no post-disorder effects are reported.

4.3 Indication of any immediate medical attention and special treatment needed

immediate medical assistance: see point 4.1.
 immediate/special treatment: see point 4.1.
 first aid specific means: eye wash fountain / safety shower should be available in the work area.

5. FIREFIGHTING MEASURES
5.1 Extinguishing media

suitable extinguishing media: SMALL FIRE: use CO₂, foam, dry powder - LARGE FIRE: use water spray or fog - cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
 unsuitable extinguishing media: pressurized water jet.

5.2 Special hazards arising from the substance

vapours may form explosive mixture with air - in case of fire, the following can be released: carbon monoxide (CO), carbon dioxide (CO₂), smoke, soot.

5.3 Advice for firefighters

standard procedure for chemical fires - spray extinguishing media to base of flames - use adequate protections for respiratory apparatus, avoid vapour inhalation.

6. ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures

for non emergency personnel: in an emergency (i.e. unintentional important release of the product in enclosed space) respiratory protection (Gas filter A, Colour code brown: consider the maximum duration for wear) must be worn. Use insulating device for respiratory protection with an independent air supply in circumstances which are unclear - use adequate protections solvent resistant: security shoes, bodysuit, gloves and protective goggles solvent-resistant (see section 8).
 for emergency responders: as per non-emergency personnel.
 emergency procedures: remove any ignition source and ensure adequate ventilation in working areas following accidental releases.

6.2 Environmental precautions

keep away from drains - keep away from surface and ground water.

6.3 Methods and material for containment and cleaning up

keep away from heat and use non-combustible absorbing sawdust (sand, specific binder) - using suitable pumping systems for inflammable materials. Refer to section 13 for the appropriate methods of waste treatment.

6.4 Reference to other sections

section 4, 8 & 13

7. HANDLING AND STORAGE
7.1 Precautions for safe handling

safe handling: during handling keep original container closed - avoid contact with skin and eyes - wear adequate protective gloves and eye/face protection - avoid any sources of ignition - avoid exposing to high temperature during processing - maintain adequate local and general ventilation where product is handled.
 hygiene at work: do not ingest or apply to the skin as such - no smoking - remove contaminated clothing - good personal washing routines should be followed - if at risk of contamination, foods, beverages and other articles of consumption must not be stored or consumed at the work areas.

7.2 Conditions for safe handling, including any incompatibilities

container: to be stored in stainless steel drums, preferably under inert atmosphere (nitrogen) with minimum head space, protected from day-light. • **take note**: the container used during transportation must be considered only as a temporary container and it must not be considered in any case adequate for medium or long term warehousing.
 conditions: stored in a dry, aerated place, away from any heat source and ignition source.

CEDRAT OIL ITALY
Ref. 16980

Version 5RME07 (Revision Number: 5 - Revision Date: July 13, 2023)

Page 3/6

temperature: from 5 °C to 21 °C.

7.3 Specific end uses

use as flavouring agent - the information of this section is not related to the use of the product in combination with any other material or any other process altering its characteristics.

8. EXPOSURE CONTROL/PERSONAL PROTECTION
8.1 Control parameters

 occupational exposure limit: Component with limit values that require monitoring at the workplace:
 CAS 5989-27-5, (R)-p-mentha-1,8-diene
 AGW (Germany): 110 mg/m³, 20 ppm, 2(II); DFG, Sh, Y



8.2 Exposure control

a good basic standard of occupational hygiene is to be implemented (see also section 7).

8.2.1 Appropriate engineering controls

where appropriate, use closed system to transfer and process this material - if appropriate, isolate mixing rooms and other areas where this material is used or openly handled - maintain these areas under negative air pressure relative to the rest of the plant.

8.2.2 Individual protection measures, such as personal protective equipment

	eye/face protection:	protective goggles with built-in-frame tested to EN166 (should be checked regularly).
	skin protection - hand:	suitable gloves tested to EN374 (should be checked regularly) - always use with clean, dry hands.
	skin protection - other:	protective work clothing solvent resistant (should be checked regularly).
	respiratory protection:	not necessary in adequate local with general ventilation - avoid breathing vapors.
	thermal hazards:	none

8.2.3 Environmental exposure controls

the usual precautions in handling chemicals have to be observed.

9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties

physical form:	liquid
colour:	yellow to dark yellow/greenish
odour:	citrusy
odour threshold:	N/D
pH:	N/A
initial boiling point (& range):	N/D
melting point/freezing point:	N/A
flash point:	52 °C (125.6 °F)
evaporation rate:	N/D
upper/lower explosive limits:	N/D
vapour pressure:	N/D
vapour density:	N/D
relative density d_4^{20} :	0.8480 ÷ 0.8580
relative density d_{20}^{20} :	0.8495 ÷ 0.8595
solubility:	in alcohol & other oils / negligible in H ₂ O
partition coefficient n-octanol/H ₂ O:	N/D
auto-ignition temperature:	N/D
decomposition temperature:	N/D
viscosity:	N/D
explosive properties:	none
oxidizing properties:	none

9.2 Other information
9.2.1. Information with regard to physical hazard classes

none

9.2.2. Other safety characteristics

none

10. STABILITY AND REACTIVITY
10.1 Reactivity

product not reactive with water - product not reactive if used according to storage & handling conditions & identified uses (see subsection 1.2).

10.2 Chemical stability

 product stable if used according to storage & handling conditions & identified uses (see subsection 1.2). • **shelf life:** 18 months, as per recommended storage & handling conditions (see section 7).

10.3 Possibility of hazardous reactions

none if used according to storage & handling conditions (see section 7) & identified uses (see section 1 & 7).

CEDRAT OIL ITALY

Version 5RME07 (Revision Number: 5 - Revision Date: July 13, 2023)

Ref. 16980

Page 4/6

10.4 Conditions to avoid
avoid exposure to heat.

10.5 Incompatible materials
highly oxidizing agents.

10.6 Hazardous decomposition products
no known hazardous decomposition products under recommended storage & handling conditions - in case of combustion: carbon monoxide (CO), carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

acute toxicity:	no data available
skin corrosion/irritation:	no data available
serious eye damage/irritation:	no data available
respiratory or skin sensitization:	no data available
germ cell mutagenicity:	no data available
carcinogenicity:	no data available
reproductive toxicity:	no data available
STOT-single exposure:	no data available
STOT-repeated exposure:	no data available
aspiration hazard:	no data available

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

the substance contains no constituent identified as having endocrine disrupting properties according to REACH Article 59(1) or Commission Delegated regulation (EU) 2017/2100 at a concentration equal to or greater than 0.1%.

11.2.2 Other information

no data available

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

aquatic life:	N/D
algae/aquatic plants:	N/D
fish/aquatic invertebrates:	N/D

12.2 Persistence and degradability

this substance to be considered as a readily biodegradable substance; based on its ready biodegradability, oil does not fulfill the criteria for persistent.

12.3 Bioaccumulative potential

as the constituents are readily biodegradable, it is likely that they will also be biotransformed in higher organisms so a high bioaccumulation factor is actually not expected.

12.4 Mobility in soil

this substance is 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.

12.5 Results of PBT and vPvB assessment

according to Annex XIII of REACH Regulation, the substance contains no constituent considered either Persistent, Bioaccumulative and Toxic (PBT), or very Persistent and very Bioaccumulative (vPvB) at a concentration equal to or greater than 0.1%.

12.6 Endocrine disrupting properties

the substance contains no constituent considered to have endocrine disrupting properties according to REACH Article 59(1) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

12.7 Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

the containers used for this product must completely empty before disposal. Dispose product and/or contaminated packaging in accordance with federal, state and local environmental control regulations - disposal through the waste water is illegal.

14. TRANSPORT INFORMATION**14.1 UN Number**

1197

14.2 UN proper shipping name

extracts, liquid, for flavour or aroma

CEDRAT OIL ITALY
Ref. 16980

Version 5RME07 (Revision Number: 5 - Revision Date: July 13, 2023)

Page 5/6

14.3 Transport hazard class

Class 3

14.3.1 Transport hazard symbols

 for IMDG-ADR/RID: fish and tree - flame
 for ICAO/IATA: flame

14.4 Packing group

III

14.5 Environmental hazards

marine pollutant

14.6 Special precautions for user

this product contains constituents flammables & dangerous for the environment - in case of pouring out, make sure to label new package accordingly, reproducing original label with relevant symbols.

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

not applicable

15. REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation specific for the substance

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

15.2 Chemical Safety Assessment

N/D

16. OTHER INFORMATION
a Revision

Version 2RME01 (Revision Number: 2 - Revision Date: June 2018)

Version 3RME01 (Revision Number: 3 - Revision Date: June 04, 2021)

- **7.2 Conditions for safe handling, including any incompatibilities – storage temperature update**
- **from 3 °C to 7 °C → 5°C to 21°C**

Version 4RME01 (Revision Number: 4 - Revision Date: December 13, 2022)

- **no changes up to date of this revision**

Version 5RME01 (Revision Number: 5 - Revision Date: July 13, 2023)

- **updating to Sections: 10.2 – shelf life updated 547 days → 18 months**
- **added density to 20/20**
- **Updates to Sections: 2, 8, 9, 11, 12, 14 ,15 according to Reg. (EU) No 2020/878**

b Legend

CLP: Regulation (EC) No 1272/2008 / **CSR:** Chemical Safety Report / **Asp. Tox.:** aspiration hazard / **Aquatic Chronic:** aquatic hazard / **Skin Irrit.:** skin irritation hazard / **Skin Sens.:** skin sensitization hazard / **Flam. Liq.:** flammable liquid hazard / **WAF:** Water Accommodated Fractions / **LD50:** Lethal Dose 50 / **LL50:** Lethal Loading 50 / **EL50:** Effective Loading 50 / **NOAEL:** No-Observed Adverse Effect Level / **NOEL:** No-Observed Effect Level / **LOEL:** Lowest Observed Effect Level / **OECD:** Organization for Economic Co-operation and Development

c Literature references and source of data

RIFM - FEMA database – IFRA IOFI Labelling Manual

d List of relevant hazard statements and precautionary statements

H226 flammable liquid and vapour
H304 may be fatal if swallowed and enters airways
H315 causes skin irritation
H317 may cause an allergic skin reaction
H411 toxic to aquatic life with long lasting effects
P210 keep away from heat/sparks/open flames/hot surfaces – no smoking
P241 use explosion-proof electrical/ventilating/lighting/equipment
P262 do not get in eyes, on skin or on clothing
P273 avoid release to the environment
P280 wear protective gloves/eye protection/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
P405 store locked up
P501 dispose product/container in accordance with applicable regulations

CEDRAT OIL ITALY
Ref. 16980

Version 5RME07 (Revision Number: 5 - Revision Date: July 13, 2023)

Page 6/6

 e Inventories & other

	CAS	ID	NOTE
EINECS	85085-28-5	285-359-3	
TSCA	68991-25-3	-	
IECSC	85085-28-5		
KECI	68991-25-3	KE-26874	
DSL	68991-25-3	-	
AICS	68991-25-3	-	
FDA	-	21CFR182.20	
CoE	-	2035	
FEMA	94266-47-4	2318	
RIFM	-	7200-G2.5	
HS Code	-	3301192000	EU TARIC

 f Further information

The information on this SDS is correct to the best of our knowledge, covering the involved product at the date of its publication. They apply to the product as such as per the described specifications. The information is not related to the use of the product in combination with any other material or any other process altering its characteristics. The end user should apply to the existing normative and laws covering the use of the product, the hygiene and security at work. The container used during transportation must be considered only as a temporary container and it must not be considered in any case adequate for medium or long term warehousing. Upon receipt, our product must be stored as soon as possible in compliance with point 7.2 of this SDS. The information given in this SDS is in accordance with the Reg. (EU) No 2020/878.