



THYME RED ESSENTIAL OIL - SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION:

1.1 Product identifier

Product name	:	Thyme Red Essential Oil.
INCI name	:	Thymus Zygis Herb Oil.
CAS number	:	85085-75-2
EC number	:	285-397-0
REACH number	:	01-2120768771-44-0006

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

Use of substance/mixture	:	Industrial uses. Used in formulations for flavoring preparations and or perfumery.
Uses advised against	:	Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet

Company	:	AROMATICAS DEL ZALABÍ C/ Martín Pérez de Ayala 1-4 E 18008 Granada. Spain
Telephone Number	:	+34 968 786977
Email address	:	info@aromaticaszalabi.com
WEB	:	www.aromatcaszalabi.com

1.4 Emergency telephone number : **+34 968 786977**

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to the Regulation (EC) No 1272/2008.

Flammable liquids, Hazard Category 3	H226: Flammable liquid and vapor.
Acute toxicity (oral), Hazard Category 4	H302: Harmful if swallowed.
Aspiration hazard, Hazard Category 1	H304: May be fatal if swallowed and enters

Hazard Category 1C/1B

Skin Sensitization, Hazard Category 1

Serious eye damage/irritation, Hazard Category 1

Reproductive toxicity, Category 2

Long-term (chronic) aquatic hazard Category 2

airways. Skin corrosion/irritation,

H314: Severe skin burn and eye damage.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H361: Suspected of damaging fertility or the unborn child.

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements - Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

:



Signal word

:

DANGER

Hazard statements

:

H226: Flammable liquid and vapor.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H411: 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.

P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310: If swallowed: Immediately call a poison center/doctor.

P301 + P330 + P331: If swallowed: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310: If inhaled: Remove person to fresh air and keep comfortable for breathing.



Immediately call a poison center/doctor.

P305 + P351 + P338 + P310: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P391: Collect spillage.

Hazardous components which must be listed on the label:

Thymol

P - Cimene

Cis - Ocimene

Carvacrol

Caryophyllene

α - Pinene

β - Pinene

1,8 - Cineol

Citral

Camphor

2.3 Other hazards

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

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances UVCB

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

Hazardous components:

Chemical name	Identifier	Concentration (% w/w)	Classification
Thymol	CAS-No.: 89-83-8 EC-No.: 201-944-8	30 - 50	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Chronic 2; H411
P - Cimene	CAS-No.: 99-87-6 EC-No.: 202-796-7	10 - 20	Flam. Liq. 3; H226 Repr. 2; H361 Asp. Tox. 1; H304 Aquatic Chronic 2; H411
γ - Terpinene	CAS-No.: 99-85-4 EC-No.: 202-794-6	3 - 10	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Repr. 2; H361
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4	1 - 10	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317
Carvacrol	CAS-No.: 499-75-2 EC-No.: 207-889-6	1 - 10	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317
Cis - Ocimene (z-3,7-dimethyl-1,3,6-octatriene) / (r)-p-mentha-1,8- diene, d-limonene	CAS-No.: 5989-27-5 EC-No.: 227-813-5	2,5 - 10	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
p-menth-1-en-4-ol	CAS-No.: 562-74-3 EC-No.: 209-235-5	1 - 10	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319
7-methyl-3- methyleneocta-1,6-diene / (r)-p-mentha-1,8-diene, d-limonene	CAS-No.: 123-35-3 EC-No.: 204-622-5	1 - 10	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 2; H411
α - Terpinene	CAS-No.: 99-86-5 EC-No.: 202-795-1	1 - 2,5	Flam. Liq. 3; H226 Acute Tox. 4; H302 Asp. Tox. 1; H304 Aquatic Chronic 2; H411
Borneol	CAS-No.: 507-70-0 EC-No.: 208-080-0	1 - 10	Flam. Sol. 2; H228
α - Pinene	CAS-No.: 80-56-8 EC-No.: 201-291-9	1 - 2,5	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
5-isopropyl-2- methylbicyclo [3.1.0] hex 2-ene (alpha-thujene)	CAS-No.: 2867-05-2 EC-No.: 220-686-7	1 - 10	Flam. Liq. 3; H226
Camphene	CAS-No.: 79-92-5 EC-No.: 201-234-8	0,25 - 1	Flam. Sol. 2; H228 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
B - Pinene	CAS-No.: 127-91-3 EC-No.: 204-872-5	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
1,8 - Cineol	CAS-No.: 470-82-6 EC-No.: 207-431-5	0,1 - 1	Flam. Liq. 3; H226 Skin Sens. 1; H317
Citral	CAS-No.: 5392-40-5 EC-No.: 226-394-6	0,1 - 1	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317
1-octen-3-ol (amyl vinyl carbinol)	CAS-No.: 3391-86-4 EC-No.: 222-226-0	0,1 - 0,25	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Acute 1; H400

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	:	Do not leave the victim unattended.
If inhaled	:	Remove person to fresh air and keep at rest. If unconscious, place in recovery position and seek medical advice.
If swallowed	:	Keep respiratory tract clear. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical advice immediately and show the container.
In case of eye contact	:	First rinse with plenty of water for several minutes. Remove contact lenses. Protect unharmed eye.
In case of skin contact	:	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Risks	:	Harmful if swallowed. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Causes severe burns.
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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	:	For safety reasons do not use full water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	May release toxic, irritating and/or corrosive gases. Exposure to decomposition products may be a hazard to health.
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5.3 Advice for firefighters

Firefighting instructions	:	Cool down the containers exposed to heat with a water spray.
Protection during firefighting	:	Do not attempt to act without suitable protective equipment.
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Note that:

- 1-Closed containers may build up pressure at elevated temperatures.
- 2-Avoid inhalation of fumes or vapors. Use appropriate respiratory protection.
- 3-Prevent run-off from firefighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASES MEASURES



6.1 Personal precautions, protective equipment, and emergency procedures.

Wear appropriate gloves to prevent skin exposure.

Use complete protective clothing if necessary.

Avoid inhalation of its vapors or smoke and use self-contained breathing apparatus if necessary.

Evacuate the surroundings and maintain adequate ventilation in the working area after spilling.

6.2 Environmental precautions

Dangerous for the environment. Should not be released into the environment.

Try to prevent the product 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

Cover and wipe up with an inert, inorganic, non-combustible absorbent material.

Ventilate area and wash spill site after material pickup is complete.

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

Advise on safe handling	:	Smoking, eating, and drinking should be prohibited in the application area.
Heat and ignition sources	:	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. DO NOT SMOKE.
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. Keep containers sealed and in a fresh, dry, and well ventilated area away from sources of ignition.
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

Inhalation of components listed on the label may cause long term systemic effects.

8.2 Exposure controls



Respiratory protection	:	Use self-filtering mask for vapor. CEN standards: EN 405 « CE » marking, Category II
Hand protection	:	Protective gloves. CEN standards: EN 374-1, EN 374-2, EN 374-3, EN 420 «CE» marking, Category II
Eye protection	:	Use protective goggles with built-in frame. CEN standards: EN 166 «CE» marking, Category II
Skin Protection	:	Anti-static protective clothing. CEN standards: EN 340, EN 1149-1, EN 1149-2,

		EN 1149-3, EN 1149-5 «CE» marking, Category II
Other protection	:	Anti-static safety footwear against chemicals. CEN standards: EN ISO 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN ISO 20345 «CE» marking, category III

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	:	Mobil liquid.
Color	:	Yellow to red.
Odor	:	Aromatic, phenolic, spicy.
Density	:	0,910 to 0,937 (g/ml) (20 °C)
Refractive Index	:	1,494 to 1,504 (20 °C)
Optical Rotation	:	-6° to 0°
Flash point	:	60 °C

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Flammable liquid and vapors.
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	No hazards to be specially mentioned.
10.4 Conditions to avoid	Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
10.5 Incompatible materials	No data available.
10.6 Hazardous decomposition products	No decomposition if used and stored as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects



Acute toxicity	:	Harmful if swallowed.
Skin corrosion/irritation	:	Causes severe burns.
Serious eye damage/eye irritation	:	Causes serious eye damage.
Skin sensitization	:	May cause an allergic skin reaction.
Respiratory sensitization	:	Not classified based on available information.
Germ cell mutagenicity	:	Not classified based on available information.
Carcinogenicity	:	Not classified based on available information.
Reproductive toxicity	:	Suspected of damaging fertility or the unborn child.
STOT - single exposure	:	Not classified based on available information.
STOT - repeated exposure	:	Not classified based on available information.
Aspiration toxicity	:	May be fatal if swallowed and enters airways.
Acute oral toxicity	:	1.067 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1 Acute aquatic toxicity	Not determined.
12.2 Persistence and degradability	Not available.
12.3 Bioconcentration Factor	Not determined.
12.4 Mobility in soil	Not available.
12.5 Results of PBT and vPvB assessment	Not determined.
12.6 Other adverse effects	Do not allow the material to enter streams, sewers or other waterways.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Containers must be disposed of as hazardous waste. Do not re-use empty containers. Dilute the remaining material and neutralize.

Dispose of in accordance with all state and local environmental regulations.

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

Flammable vapors may accumulate in the container.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID/ADN	IMDG	IATA-ICAO
UN number	UN2924	UN2924	UN2924
Proper shipping name	Flammable liquid, corrosive, n.o.s.	Flammable liquid, corrosive, n.o.s.	Flammable liquid, corrosive, n.o.s.
Transport Hazard class	3	3	3
Packing group	III	III	III
Environmentally hazardous	Environmentally hazardous and marine pollutant	Environmentally hazardous and marine pollutant	Environmentally hazardous and marine pollutant
Further information	Contains Thyme Zygis Restriction tunnel code (D/E)	Contains Thyme Zygis	Contains Thyme Zygis

14.1 Labelling according to RID / ADR, IMCO / IMDG, OACI / IATA





14.2 Special precautions for user.

Not applicable.

14.3 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:

Seveso III (directive 2012/18/Eu of the European Parliament and of the Council on the control of major accident hazards involving dangerous substances.

		LOWER TIER	UPPER TIER
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t
E2	ENVIRONMENTAL HAZARDS	200 t	500 t

Volatile organic compounds:

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control).

Volatile organic compounds (VOC) content:

33,07 %, 309,87 g/l

15.2 Chemical safety assessment:

Not required.

SECTION 16: OTHER INFORMATION

The content and format of this safety data sheet are in accordance with EC Regulation No. 1907/2006 of the European Parliament and Council.

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 product designated and may not be valid for such product used in combination with any other products or in any process, unless specified in the text.