

Safety Data Sheet dated 9/2/2017, version 2
Data di stampa 9/2/2017



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Identification:

Trade code: FGR08374

Trade name: Thym vulgaris

CAS number: 8007-46-3

EC number: 284-535-7

The transition time according to REACH Regulation, Article 23 is still not expired.

INCI name: Thymus vulgaris

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

Recommended use:

mixture of natural oils and synthetic raw materials for use in perfumery for cosmetics, alcoholic perfumery and detergents.

1.3. Details of the supplier of the safety data sheet

Supplier:

Creative Flavours & Fragrances S.p.A. - Via G. Ungaretti 39 - 20090 Opera (MI) - ITALY - Phone
+39-0257603551 - Fax +39-0257603570

Competent person responsible for the safety data sheet:

regulatory@cff.it

1.4. Emergency telephone number







Poison Centre - 24/24h - Ospedale Niguarda Ca' Granda - Milan - Phone: +39 0266101029

Poison Centre - 24/24h - Policlinico Universitario A. Gemelli - Rome - Phone: +39 063054343

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

-  Warning, Flam. Liq. 3, Flammable liquid and vapour.
-  Warning, Acute Tox. 4, Harmful if swallowed.
-  Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.
-  Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
-  Warning, Skin Sens. 1, May cause an allergic skin reaction.
-  Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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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:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P331 Do NOT induce vomiting.
 P370+P378 In case of fire: Use ... to extinguish.

Special Provisions:

None

Contents:

thymol
 (-)-Pin-2(3)-ene
 d-limonene: May produce an allergic reaction.
 (-)-Pin-2(10)-ene: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
30% - 40%	para-Cymene	CAS: 99-87-6 EC: 202-796-7 REACH 01- No.: 21198817 70-31- 0000	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 4.1/C2 Aquatic Chronic 2 H411
30% - 40%	Metil-2-(1-metiletil)fenolo	CAS: 89-83-8 EC: 201-944-8 REACH 01- No.: 21195111 77-46- 0000	⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.2/1A Skin Corr. 1A H314 ⚠ 4.1/C2 Aquatic Chronic 2 H411
1% - 3%	(-)-Pin-2(3)-ene	CAS: 80-56-8 EC: 201-291-9	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.2/2 Skin Irrit. 2 H315

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Special Provisions:

None

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thymol
 (-)-Pin-2(3)-ene
 d-limonene: May produce an allergic reaction.
 (-)-Pin-2(10)-ene: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

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1% - 3%	(-)-Pin-2(3)-ene	CAS: 80-56-8 EC: 201-291-9	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.2/2 Skin Irrit. 2 H315

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 (-)-Pin-2(10)-ene: May produce an allergic reaction.

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None

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vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

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1% - 3%	(-)-Pin-2(3)-ene	CAS: 80-56-8 EC: 201-291-9	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.2/2 Skin Irrit. 2 H315

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Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Wear chemical resistant gloves EN374-3, breakthrough times > 1 hour.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	liquid clearless	--	--
Odour:	forte, aromatico, caratteristico del timo	--	--
Odour threshold:		--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	57 °C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	0.890 - 0.920 g/ml (20°C)	--	--
Solubility in water:	water	--	--
Solubility in oil:	ethanol, oils and fats	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--

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Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

para-Cymene - CAS: 99-87-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3669 mg/kg

(-)-Pin-2(3)-ene - CAS: 80-56-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2100 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 5005 mg/kg

d-limonene - CAS: 5989-27-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4400 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LD50 - Route: Oral - Species: Mouse = 5600 mg/kg

(-)-Pin-2(10)-ene - CAS: 127-91-3

a) acute toxicity:

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Test: LD50 - Route: Oral - Species: Rat = 4700 mg/kg

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt sound working practices, so that the product is not released into the environment.

(-)-Pin-2(3)-ene - CAS: 80-56-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Pimephales promelas = 0.28 mg/l - Duration h: 96

d-limonene - CAS: 5989-27-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.72 mg/l - Duration h: 96

Endpoint: EC50 - Species: Fish = 0.688 mg/l - Duration h: 96

12.2. Persistence and degradability

None

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions.

In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



14.1. UN number

ADR-UN Number: 2920

IATA-UN Number: 2920

IMDG-UN Number: 2920

14.2. UN proper shipping name

ADR-Shipping Name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Metil-2-(1-metiletil)fenolo, para-Cymene)

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IATA-Shipping Name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Metil-2-(1-metiletil)fenolo, para-Cymene)
IMDG-Shipping Name:	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Metil-2-(1-metiletil)fenolo, para-Cymene)
14.3. Transport hazard class(es)	
ADR-Class:	8
ADR - Hazard identification number:	83
IATA-Class:	8
IATA-Label:	8 + 3
IMDG-Class:	8
14.4. Packing group	
ADR-Packing Group:	II
IATA-Packing group:	II
IMDG-Packing group:	II
14.5. Environmental hazards	
ADR-Enviromental Pollutant:	Yes
IMDG-Marine pollutant:	Marine Pollutant
Most important toxic component:	para-Cymene
14.6. Special precautions for user	
ADR-Subsidiary risks:	3
ADR-S.P.:	274
ADR-Tunnel Restriction Code:	(D/E)
IATA-Passenger Aircraft:	851
IATA-Subsidiary risks:	3
IATA-Cargo Aircraft:	855
IATA-S.P.:	-
IATA-ERG:	8F
IMDG-EmS:	F-E , S-C
IMDG-Subsidiary risks:	3
IMDG-Storage category:	Category C
IMDG-Storage notes:	Protected from sources of heat. Clear of living quarters.
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
N.A.	

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 98/24/EC (Risks related to chemical agents at work)
 - Dir. 2000/39/EC (Occupational exposure limit values)
 - Regulation (EC) n. 1907/2006 (REACH)
 - Regulation (EC) n. 1272/2008 (CLP)
 - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 - Regulation (EU) 2015/830
 - Regulation (EU) n. 286/2011 (ATP 2 CLP)
 - Regulation (EU) n. 618/2012 (ATP 3 CLP)
 - Regulation (EU) n. 487/2013 (ATP 4 CLP)
 - Regulation (EU) n. 944/2013 (ATP 5 CLP)
 - Regulation (EU) n. 605/2014 (ATP 6 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

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Regulation (EC) nr 648/2004 (detergents).
1999/13/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Text of phrases referred to under heading 3:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

The next paragraph were modificate:

SECTION 1: Identification of the substance/mixture and of the company/undertaking

SECTION 3: Composition/information on ingredients

SECTION 16: Other information

9. PHYSICAL AND CHEMICAL PROPERTIES(*)

15. REGULATORY INFORMATION

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances (1983)

I.N.R.S. - Fiche Toxicologique

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. It's possible to contest the product not later than a week from its arrival.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.

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LTE: Long-term exposure.
PNEC: Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE: Short-term exposure.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK: German Water Hazard Class.
Data: Opera(MI) - Italy, 9/2/2017

Creative Flavours & Fragrances S.p.A.
TECHNICAL SPECIFICATION

Product type and use: natural essential oil
CAS number: 8007-46-3
EC number: 284-535-7
INCI name: Thymus vulgaris
ISS Formula Code: FGR08374 (website: www.iss.it - company code 12546920153)

PRODUCT CHARACTERISTIC (*)

Appearance: liquid clearless
Colour: from colourless to pale
Odour: characteristic
Flash point: 57 °C
Autoignition temperature: N.A.
Relative density: 0.890 - 0.920 g/ml (20°C)
Refraction index: 1.490 - 1.510 (20°C)
Solubility in oil: ethanol, oils and fats
Microbiological state: the fragrance is not subject for microbiological organism.
pH (MA006): N.A.
Melting point / freezing point: N.A.
Solid/gas flammability: N.A.
Explosive properties: N.A.
Oxidizing properties: N.A.
Vapour pressure: N.A.hPa
Partition c. (n-octanol/H₂O): N.A.

PACKING AND STORAGE:

Keep the product in its original container, well sealed, in a dry and ventilated area, with a temperature between 8 and 24°C (46.4/75.2°F) not more than 12 months. After 12 months, quality should be checked before use.

PRECAUTION:

Concentrated product for industrial use avoid contact with eyes and mucous. Do not drink.

* NOTE: This data is based on information believed to be reliable. The chemical and physical values, olfactive note and colour were determined immediately after manufacture of the product. The colour and olfactive note, in some fragrance, can be change in second time for natural process of ageing. Alterations can result due to improper transport and/or improper storage. The certificate does not release the user from the responsibility of undertaking his own tests of the characteristics of the product and its suitability in the intended application.
This document was processed automatically and therefore has no signature.

Data: Opera(MI) - Italy, 9/2/2017

Creative Flavours & Fragrances S.p.A.
SAFETY EVALUATION DATA FOR THE FRAGRANCE

ALLERGENIC SUBSTANCES (by ECHA Code of practice 2006 & Dir.2003/15/CEE):

List of allergens	N° CAS	% used as such	% via essential oils	% total presence
Alpha Isomethyl Ionone	127-51-5	0.000	0.000	0.000
Amyl Cinnamal	122-40-7	0.000	0.000	0.000
Anise Alcohol	105-13-5	0.000	0.000	0.000
Benzyl Alcohol	100-51-6	0.000	0.000	0.000
Benzyl Benzoate	120-51-4	0.000	0.000	0.000
Benzyl Cinnamate	103-41-3	0.000	0.000	0.000
Benzyl Salicylate	118-58-1	0.000	0.000	0.000
Butylphenyl Methylpropional	80-54-6	0.000	0.000	0.000
Cinnamal	104-55-2	0.000	0.000	0.000
Cinnamyl Alcohol	104-54-1	0.000	0.000	0.000
Citral	5392-40-5	0.000	0.000	0.000
Citronellol	106-22-9	0.000	0.000	0.000
Coumarin	91-64-5	0.000	0.000	0.000
Eugenol	97-53-0	0.000	0.050	0.050
Farnesol	4602-84-0	0.000	0.000	0.000
Geraniol	106-24-1	0.000	0.000	0.000
Hexyl Cinnamal	101-86-0	0.000	0.000	0.000
Hydroxycitronellal	107-75-5	0.000	0.000	0.000
Hydroxyisohexyl 3-CyclohexeneCarboxaldehyde	31906-04-4	0.000	0.000	0.000
Isoeugenol	97-54-1	0.000	0.000	0.000
Limonene	5989-27-5	0.000	0.550	0.550
Linalool	78-70-6	0.000	3.500	3.500
Methyl 2-Octynoate	111-12-6	0.000	0.000	0.000
Evernia Prunastri (Oakmoss) Extract	90028-68-5	0.000	0.000	0.000
Evernia Furfuracea (Treemoss) Extract	90028-67-4	0.000	0.000	0.000
Amylcinnamyl Alcohol	101-85-9	0.000	0.000	0.000

The concentration of "0.000" means less than 1ppm. These are calculated concentrations that do not replace the chromatographic quantification of individual lots.

The European Community authorities selected these ingredients, whose presence in cosmetic products should be made manifest to inform end users, when exceeding these limits: 0.001% (10ppm) for "leave-on" products, 0.01% (100ppm) for "Rinse-off" products, and 0.01% (100ppm) for products in order to cleanse.

OTHERS DECLARATION

C.M.R SUBSTANCES

The fragrances produced off CFF do not contain substances listed into category 1° e 2° off C.M.R. (Directive 2003/15/CE e 67/548/CEE - for cancerogenic, mutagenic and toxic substance for reproduction).

They can contain substance classificate into 3° category of C.M.R. list; in that case you can find them listed in section 3 of the datasheet.

MUSK

Polycyclic musk:	none
Nitromusk:	none

THE PROHIBITED SUBSTANCE (Dir. 2008/42/CE of 3 april 2008, modification of dir. 76/768/CEE)

We declare that the fragrances end essences, produced and distributed by us do not contain the substances listed into the Annex II to Directive 2008/42/CE of 3 april 2008, modification of dir. 76/768/CEE and subsequent amendments on the approximation of the laws of the Member States relating to cosmetic products.

All our documents are updated at the real time

OGM

The product doesn't contain any GMO (genetic modificate organism) or their derivatives according with reference to Commission Regulation (EC) n°1829/2003 and 1830/2003 and amendments.

ANIMAL TESTING (Dir. 93/35/CEE)

We declare that we not practice animal testing for our fragrances end essences (Dir. 93/35/CEE).

BSE - TSE / DIOSSINA - PCBS

In our product - fragrance we not used source materials from animals (with reference to the Note for Guidance EMEA/410/01 Rev. 2), it has been produced by natural vegetable and/or sintetic rew materials.

IONISING RADIATION

The product has not been treated with ionising radiation with reference to the Directives 1999/2/CE and 1999/3/CE.

RESIDUAL SOLVENTS

With reference to the Italian DL 64/93 and further modifications which acknowledge EEC Directive 88/344 and amendments the product doesn't contain any residual solvent not authorized or, if it does, they don't exceed the limit provided by law.

RESIDUAL OF PESTICIDES

With reference to the Council Directives 76/895/EEC, 86/362/EEC, 86/363/EEC which defines the maximum content of some pesticides in food-stuffs and amendments the product doesn't contain any contaminant not authorized or, if it does, it doesn't exceed the limit provided by law.

RESIDUAL OF CONTAMINANTS

With reference to the Regulation (CE) N.1881/2006 of the COMMISSION dated 19/12/2006, which defines the maximum content of some contaminants in food-stuffs and amendments the product doesn't contain any contaminant not authorized or, if it does, it doesn't exceed the limit provided by law.

HEAVY METALS

With reference to the EEC DIRECTIVE 88/388 and further modifications, Italian DL 107/92 and further modifications the product doesn't contain any residual heavy metal in quantity higher than the indicated (As < 3 mg/kg; Pb < 10 mg/kg; Hg < 1 mg/k; Cd < 1 mg/kg)

LABELLING INFORMATION:

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FGR08374
THYME OIL

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Council Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparations) and subsequent amendments. Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/EC (Occupational exposure limit values). Regulation (EC) No 1907/2006 (REACH). Regulation (EC) No 1272/2008 (CLP) (Annex VI). Regulation (EC) No 790/2009 (Annex IV, Annex V).

Hazard pictograms:



Danger

Hazard statements:

- H226 Flammable liquid and vapour.
- 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:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P331 Do NOT induce vomiting.
- P370+P378 In case of fire: Use ... to extinguish.

Special Provisions:

None

Contents:

- thymol
- (-)-Pin-2(3)-ene
- d-limonene: May produce an allergic reaction.
- (-)-Pin-2(10)-ene: May produce an allergic reaction.

NOTA: This document was processed automatically and therefore has no signature.

Data:

Opera(MI) - Italy, 9/2/2017