



EUGENOL 100%

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Commercial Product Name	EUGENOL 100%
Generic name	4-allyl-2-methoxyphenol
Index-No annex VI	—
CAS-No.	97-53-0
EC-No.	202-589-1
EC CAS-No.	97-53-0
FEMA-No.	2467
FDA-No.	184.1257
CoE-No.	171
REACH registration No.	01-2119971802-33-XXXX

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

Raw material for the industry.

1.3. Details of the supplier of the safety data sheet

Name and full details	ASTIER DEMAREST S.A.S 60, route de la Paoute BP 51002 - Le Plan de Grasse 06131 GRASSE CEDEX FRANCE Tel / Ph +33.(0).4.93.40.56.56 contact@astierdemarest.com
E-mail adress of the person in charge of the writing of the material safety data sheets	reglementation@astierdemarest.com

1.4. Emergency telephone number

UNITED KINGDOM

In England and Wales NHS 111 - dial 111

In Scotland NHS 24 - dial 111

IRELAND :

National Poisons Information Centre: 353 (1) 809 2166 (8.00 a.m.to 10.00 p.m. 7 days a week). Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

2. Hazards identification

2.1. Classification of the substance or mixture

	Eye Irrit. 2 : Irritating to eyes - Category 2 Skin. Sens. 1B : Skin sensitisation - Category 1 B
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2.2. Label elements

Hazard pictograms	
Signal word	Warning
Hazard statements	H317 : May cause an allergic skin reaction. H319 : Causes serious eye irritation.



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Precautionary statements	<p>[P261] : Avoid breathing dust/fume/ gas/mist/vapours/spray.</p> <p>[P264] : Wash peel thoroughly after handling.</p> <p>[P272] : Contaminated work clothing should not be allowed out of the workplace.</p> <p>[P280] : Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/... (See MSDS)</p> <p>[P302+P352] : IF ON SKIN: Wash with plenty of water/...</p> <p>[P305+P351+P338] : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>[P321] : Specific treatment (see ... on this label). (... Reference to supplemental first aid instruction. See MSDS)</p> <p>[P333+P313] : If skin irritation or rash occurs: Get medical advice/attention.</p> <p>[P337+P313] : If eye irritation persists: Get medical advice/attention.</p> <p>[P362+P364] : Take off contaminated clothing and wash it before reuse.</p> <p>[P501] : Dispose of contents/container to gional/national/international regulation.</p>
Additional Hazard class	—

2.3. Other hazards

Results of PBT and vPvB assessment	Does not meet the criteria to be qualified as persistent, bioaccumulative and toxic, or very persistent and very bioaccumulative according to Annex XIII of Regulation (EU) 1907/2006.
Endocrine disrupting properties	Has not been listed pursuant to Article 59(1) of the REACH Regulation due to its endocrine disrupting properties, and is only known to have endocrine disrupting properties in accordance with the stated criteria in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
Other informations	Not determined

3. Composition/information on ingredients

3.1. Substances

Main constituent	Eugenol
Other constituents (additives, stabilising additive...)	—

3.2. Mixtures / UVCB

- Hazardous components - Classification according to Regulation (EC) No 1272/2008

Name	EC No	CAS No	CLP - Categories	CLP - Hazard Statement	Mini	Maxi
Eugenol	202-589-1	97-53-0	Eye Irrit. 2 Skin. Sens. 1B	H319 H317	99 %	100 %

4. First aid measures

4.1. Description of first aid measures

Skin contact	Remove contaminated clothing. Wash contaminated area with copious amounts of water and soap. Ask for medical advice if irritating.
Eye contact	Rinse immediately with plenty of water holding the eyelids apart. Consult a physician if irritation persists. For contact lens wearers: Rinse immediately with plenty of water. The lenses fall certainly during flushing. If this is not the case, remove if they can be easily removed. Do not give them and do not return the lens after the accident without the advice of your ophthalmologist.
Ingestion	If the person is conscious, rinse mouth with water. DO NOT induce vomiting unless directed by medical personnel. Consult a doctor immediately. NEVER GIVE AN UNCONSCIOUS PATIENT WATER TO DRINK.
Inhalation	Place the patient to fresh air. If symptoms occur, consult a doctor. If unconscious, place in recovery position and get medical attention immediately.

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

For more details on the consequences in terms of health and symptoms, refer to Section 11.

4.3. Indication of any immediate medical attention and special treatment needed

In case of doubt or if symptoms persist, consult a doctor. Never give anything by mouth to an unconscious person. It is recommended that those providing first aid have a personal protective equipment. No action shall be taken in the absence of proper training.

5. Firefighting measures

5.1. Extinguishing media



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Suitable extinguishing media	Carbon dioxide, dry chemical foam
Unsuitable extinguishing media	Direct stream of water.

5.2. Special hazards arising from the substance or mixture

Possible production of toxic fumes in case of fire.

5.3. Advice for firefighters

Avoid breathing vapors and smoke released. Use a mask if necessary. Do not attack the fire with water: water instead of stifling tends to fuel the fire some aromatic products such as essential oils have the ability to float on water. The fire spread so fast. Cool closed containers exposed to the heat of the fire by spraying water because the pressure can increase at high temperatures. To extinguish an incipient fire based essential oil, use a specific ABC powder fire extinguisher (or equivalent). If the fire is not important, it can be choked by covering with earth, sand or blanket.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For non-rescuers:

Wear appropriate personal protective equipment to prevent inhalation and contact with skin, eyes and personal clothing. Refer to section 8. Ensure sufficient ventilation. Remove all sources of ignition. NO SMOKING. Keep unprotected people away.

- For rescuers:

Wear personal protective equipment adapted to the chemical risk. Ensure sufficient ventilation. Remove all sources of ignition. Keep unprotected people away.

6.2. Environmental precautions

Avoid contamination of drains, surface water and groundwater. In case of environmental pollution (soil, drains, sewers, surface water or ground water), inform the competent authorities.

6.3. Methods and material for containment and cleaning up

Large spillages should be contained with absorbent material, sand or inert powder, which will then be scanned and destroyed according to regulations as well as towels, sponges, etc.. used to absorb.

6.4. Reference to other sections

For personal protection, see section 8.

For waste disposal, see section 13.

7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with the product. (See individual protection measures in section 8.) Do not ingest the product. Keep away from food or drink. Do not smoke near. Do not breathe vapors plenty hot. During the incorporation of the product, it must be kept at relatively low temperatures. If necessary temperature rise, it must be provided within short time. Do not heat open flame, fumes or expose to flame or other sources of ignition (eg electrical equipment). An adequate ventilation is desirable. Observe the precautions required by the current hygiene.

7.2. Conditions for safe storage, including any incompatibilities

It is recommended to store in the original sealed packaging, away from heat and avoiding too large temperature differences. An adequate ventilation is desirable. Observe the precautions required by the current hygiene.

7.3. Specific end use(s)

Comply with the regulations, no specific recommendation.

8. Exposure controls/personal protection

8.1. Control parameters

Not determined, refer to the regulations (occupational exposure limit values, Derived No-Effect Level DNEL, Predicted No-Effect Concentration PNEC)

8.2. Exposure controls

- Appropriate engineering controls

Maintain air concentrations below occupational exposure standards. Observe the normal safety precautions for the use of chemicals, ocular fountains and showers should be available nearby workstations.

- Individual protection measures, such as personal protective equipment

Eye / face protection	Safety glasses or goggles (EN 166)
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Skin protection	Protective work clothing, gloves resistant to chemicals (EN 374-1) protection. They must be replaced regularly and the first signs of damage. Wash hands before breaks and immediately after handling the product.
Respiratory protection	In well-ventilated areas, respiratory protection is not normally required. If this is not the case, a mask may be required unless otherwise stated in section 2.
Thermal hazards	Always wear appropriate protective equipment and a self-contained breathing apparatus.

- Environmental exposure controls

Refer to regulations.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colorless to pale yellow
Odour	Strong, characteristic
pH	Not determined
Melting point/freezing point - °C	-7.5 °C
Initial boiling point and boiling range - °C	248 °C
Flash point	124 °C 255 °F
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	0.04 hPa @ 25°C
Vapour density	Not determined
Relative density	Min 1.065 Max 1.070
Solubility(ies)	Water: 1 154 mg/L at 20°C
Partition coefficient: n-octanol/water	Log Pow = 1.83 @ 30°C
Auto-ignition temperature - °C	380°C
Decomposition temperature - °C	Not determined
Viscosity	8.39 mPa at 25°C
Explosive properties	The substance does not contain chemical groups with explosive properties.
Oxidising properties	The substance does not contain chemical groups with oxidizing properties.
Particle characteristics	—

9.2. Other information

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10. Stability and reactivity

10.1. Reactivity

Does not present dangerous reactions under normal using conditions.

10.2. Chemical stability

Stable product in proper storage conditions.

10.3. Possibility of hazardous reactions

None according to our knowledge in the normal conditions of use.

10.4. Conditions to avoid

Prolonged or excessive heat and / or exposure to air can cause a non-hazardous decomposition and / or oxidation of the substance.



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10.5. Incompatible materials

Avoid strong oxidants and acids.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

11. Toxicological informations

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity oral	LD50 (rat) : 2 000 mg/kg bw LD50 (mouse) : 1 500 - 3 000 mg/kg bw
Acute toxicity dermal	Not determined
Skin corrosion/irritation	Not determined
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not determined
Carcinogenicity	Not determined
Reproductive toxicity	A NOAEL was not reported by the study authors for this study. However, based on expert judgment the following NOAELs/LOAELs are proposed: NOAEL fertility = 700 mg/kg bw/day. NOAEL development = 230 mg/kg bw/day / LOAEL = 700 mg/kg bw/day, as a worst-case based on decreased male and female F2 pup weights. LOAEL parental toxicity = 70 mg/kg bw/day, based on decreased body weight gains at all dose-levels, although probably linked to the bolus effect.
STOT - single exposure	Not determined
STOT - repeated exposure	Not determined
Aspiration hazard	LC50 (rat) > 2.6 mg/L

11.2. Information on other hazards

Endocrine disrupting properties	Not applicable
Other information	Not determined

12. Ecological informations

12.1. Ecological information

LC50 (freshwater fish) = 13 mg/L
LC50 (freshwater invertebrates) = 1.13 mg/L
LC50 (freshwater algae) = 24 mg/L
LC10 (freshwater algae) = 24 mg/L

12.2. Persistence and degradability

Readily biodegradable

12.3. Bioaccumulative potential

Not determined

12.4. Mobility in soil

Not determined

12.5. Results of PBT and vPvB assessment

Not applicable

12.6. Endocrine disrupting properties

Not applicable

12.7. Other adverse effects

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13. Disposal considerations

13.1. Waste treatment methods

Prohibit the discharge into the natural environment (air, water, soil). Comply with applicable local regulations for disposal of waste and packaging. Use preferably a collector or an approved company. Keep (the) label (s) of contaminated packaging systematically. Empty packaging reuse

14. Transport informations

14.1. ADR

UN number	No Regulations
UN proper shipping name	—
Class	—
Packing group	—
Tunnel restriction No.	—
Labelling	—

14.2. IATA

UN Number	No Regulations
UN proper shipping name	—
Transport hazard class(es)	—
Subsidiary class	—
Packing group	—
Packing instruction	—
Labelling	—

14.3. IMDG

UN Number	No Regulations
UN proper shipping name	—
Class	—
Subsidiary class	—
Packing group	—
EMS No.	—
Labelling	—

14.4. Environmental hazards

Not dangerous for the environment.

14.5. Special precautions for user

Road: refer ADR regulation, including the safety requirements of stakeholders (Section 1.4) and the provisions concerning loading, unloading and handling (Section 7.5).

Shipping: Please refer to the IMDG regulations.

Air transport refer to IATA regulations.

14.6 Maritime transport in bulk according to IMO instruments

Not applicable

15. Regulatory informations

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture



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15.2. Chemical safety assessment

A chemical risk assessment is not required for this substance.

16. Other informations

Completely revised version according to Regulation (EU) No 2020/878 of the Commission of 18 June 2020.

Source : IFRA/IOFI Labeling Manual.

ECHA Brief Profile

This manual supplements the product data sheet but does not replace it. This information is correct to the best of our knowledge at the date indicated and are given in good faith. We shall not be held liable for use of the product for purposes other than those for which it is designed. This form does not exempt the user from knowing and applying all the regulations governing his activity. He will be the sole responsibility of the precautions related to his use of the product.

- Indication of where changes have been made to the previous version

Completely revised version according to Regulation (EU) No 2020/878 of the Commission of 18 June 2020.