

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.08.2019

Version 91

Revision: 01.08.2019

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

◊ **1.1 Product identifier**

◊ Trade name: **Thymol EuAB / 06-8320**

◊ Article number: S0403434

◊ CAS Number:  
89-83-8

◊ EC number:  
201-944-8

◊ Index number:  
604-032-00-1

◊ Registration number -

◊ **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

◊ Application of the substance / the mixture Flavour/Fragrance

◊ **1.3 Details of the supplier of the safety data sheet**

◊ Manufacturer/Supplier:

Frey & Lau GmbH  
Immenhacken 12, D-24558 Henstedt-Ulzburg  
Tel:++49-4193-9953 Fax: +49-4193-9955-80

◊ Further information obtainable from:

Sachkundige Person Frey + Lau  
info@freylau.de

◊ **1.4 Emergency telephone number:** ++49-40-54.77.99.56 WAKO

**. SECTION 2: Hazards identification**

◊ **2.1 Classification of the substance or mixture**

◊ Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

◊ **2.2 Label elements**

◊ Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.

◊ Hazard pictograms



GHS05 GHS07 GHS09

◊ Signal word Danger

◊ Hazard-determining components of labelling:

2-Isopropyl-5-methylphenol

◊ Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H411 Toxic to aquatic life with long lasting effects.

◊ Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

◊ **2.3 Other hazards**

◊ Results of PBT and vPvB assessment

◊ PBT: Not applicable.

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◊ vPvB: Not applicable.

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**. SECTION 3: Composition/information on ingredients**

◊ **3.1 Chemical characterisation: Substances**

- ◊ CAS No. Description  
89-83-8 2-Isopropyl-5-methylphenol
- ◊ Identification number(s)
- ◊ EC number: 201-944-8
- ◊ Index number: 604-032-00-1

**. SECTION 4: First aid measures**

◊ **4.1 Description of first aid measures**

- ◊ General information:  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
Seek immediate medical advice.
- ◊ After inhalation:  
In case of unconsciousness place patient stably in side position for transportation.  
Seek immediate medical advice.
- ◊ After skin contact:  
Immediately wash with water and soap and rinse thoroughly.  
Seek medical treatment.
- ◊ After eye contact:  
Rinse opened eye for several minutes under running water. Then consult a doctor.  
Seek immediate medical advice.
- ◊ After swallowing:  
Call for a doctor immediately.  
Drink plenty of water and provide fresh air. Call for a doctor immediately.  
Seek immediate medical advice.
- ◊ **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- ◊ **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

**. SECTION 5: Firefighting measures**

◊ **5.1 Extinguishing media**

- ◊ Suitable extinguishing agents:  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.  
Use fire extinguishing methods suitable to surrounding conditions.
- ◊ For safety reasons unsuitable extinguishing agents: Water with full jet
- ◊ **5.2 Special hazards arising from the substance or mixture** During heating or in case of fire poisonous gases are produced.
- ◊ **5.3 Advice for firefighters**
- ◊ Protective equipment: Mouth respiratory protective device.

**. SECTION 6: Accidental release measures**

◊ **6.1 Personal precautions, protective equipment and emergency procedures**

- Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- ◊ **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

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◊ **6.3 Methods and material for containment and cleaning up:**

- Use neutralising agent.
- Dispose contaminated material as waste according to item 13.
- Treat with 2 % sodium hydroxide solution.
- Ensure adequate ventilation.

◊ **6.4 Reference to other sections**

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

**. SECTION 7: Handling and storage**

◊ **7.1 Precautions for safe handling**

- Thorough dedusting.
- Prevent formation of dust.
- Information about fire - and explosion protection: Keep respiratory protective device available.

◊ **7.2 Conditions for safe storage, including any incompatibilities**

- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: Keep container tightly sealed.
- Storage class: 8 A
- 7.3 Specific end use(s)** No further relevant information available.

**. SECTION 8: Exposure controls/personal protection**

- Additional information about design of technical facilities: No further data; see item 7.

◊ **8.1 Control parameters**

- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.

◊ **8.2 Exposure controls**

- Personal protective equipment:
  - General protective and hygienic measures:
    - Keep away from foodstuffs, beverages and feed.
    - Immediately remove all soiled and contaminated clothing
    - Wash hands before breaks and at the end of work.
    - Avoid contact with the eyes and skin.
  - Respiratory protection: Not required.
  - Protection of hands:
    - Protective gloves
      - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
      - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
    - Material of gloves
      - The multichemical-resistant glove Barrier 02-100 is recommended.
      - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
    - Penetration time of glove material
      - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - Eye protection: Tightly sealed goggles

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**. SECTION 9: Physical and chemical properties**

**◇ 9.1 Information on basic physical and chemical properties**

**◇ General Information**

**◇ Appearance:**

Form: Solid  
Colour: Not determined.

◇ Odour: Characteristic

◇ Odour threshold: Not determined.

◇ pH-value: Not applicable.

◇ Melting point/freezing point: 48-52 °C

◇ Flash point: 102 °C

◇ Flammability (solid, gas): Product is not flammable.

◇ Ignition temperature: 285 °C

◇ Decomposition temperature: Not determined.

◇ Auto-ignition temperature: Not determined.

◇ Explosive properties: Not determined.

**◇ Explosion limits:**

Lower: 1,4 Vol %

Upper: 7,7 Vol %

◇ Density at 20 °C: 1 g/cm<sup>3</sup>

◇ Relative density: Not determined.

◇ Vapour density: Not applicable.

◇ Evaporation rate: Not applicable.

◇ Solubility in / Miscibility with  
water at 40 °C:

1,4 g/l  
Not miscible or difficult to mix.

◇ Partition coefficient: n-octanol/water: Not determined.

◇ VOC (EC) 0,00 %

◇ **9.2 Other information** No further relevant information available.

**. SECTION 10: Stability and reactivity**

◇ **10.1 Reactivity** No further relevant information available.

**◇ 10.2 Chemical stability**

◇ Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

◇ **10.3 Possibility of hazardous reactions** No dangerous reactions known.

◇ **10.4 Conditions to avoid** No further relevant information available.

◇ **10.5 Incompatible materials:** No further relevant information available.

◇ **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**. SECTION 11: Toxicological information**

**◇ 11.1 Information on toxicological effects**

**◇ Acute toxicity**

Harmful if swallowed.

◇ LD/LC50 values relevant for classification:

**ATE (Acute Toxicity Estimates)**

Oral LD50 980 mg/kg (rat)

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**89-83-8 2-Isopropyl-5-methylphenol**

Oral LD50 980 mg/kg (rat)  
Dermal LD50 >2.000 mg/kg (rabbit)  
Irritation of skin ätzend % (rabbit)  
nicht reizend 4 % (human)

Irritation of eyes stark reizend (rabbit)

- ◊ Primary irritant effect:
- ◊ Skin corrosion/irritation  
Causes severe skin burns and eye damage.
- ◊ Serious eye damage/irritation  
Causes severe skin burns and eye damage.
- ◊ Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- ◊ CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- ◊ Germ cell mutagenicity Based on available data, the classification criteria are not met.
- ◊ Carcinogenicity Based on available data, the classification criteria are not met.
- ◊ Reproductive toxicity Based on available data, the classification criteria are not met.
- ◊ STOT-single exposure Based on available data, the classification criteria are not met.
- ◊ STOT-repeated exposure Based on available data, the classification criteria are not met.
- ◊ Aspiration hazard Based on available data, the classification criteria are not met.

**. SECTION 12: Ecological information**

◊ **12.1 Toxicity**

◊ Aquatic toxicity:

**89-83-8 2-Isopropyl-5-methylphenol**

EC50/96 h 3,2 mg/l (daphnia)

EC50/nn 40 mg/l (bacteria)

LC50/96 h 5 mg/l (fish)

- ◊ **12.2 Persistence and degradability** No further relevant information available.
- ◊ **12.3 Bioaccumulative potential** No further relevant information available.
- ◊ **12.4 Mobility in soil** No further relevant information available.

◊ Ecotoxicological effects:

◊ Remark: Toxic for fish

◊ Additional ecological information:

◊ General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

◊ **12.5 Results of PBT and vPvB assessment**

◊ PBT: Not applicable.

◊ vPvB: Not applicable.

◊ **12.6 Other adverse effects** No further relevant information available.

**. SECTION 13: Disposal considerations**

◊ **13.1 Waste treatment methods**

◊ Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- ◊ Uncleaned packaging:
- ◊ Recommendation: Disposal must be made according to official regulations.

**. SECTION 14: Transport information**

◊ <b>14.1 UN-Number</b>	UN2430
◊ ADR, IMDG, IATA	
◊ <b>14.2 UN proper shipping name</b>	ALKYLPHENOLS, SOLID, N.O.S.
◊ ADR	(ISOPROPYLMETHYLPHENOL), ENVIRONMENTALLY HAZARDOUS
◊ IMDG	ALKYLPHENOLS, SOLID, N.O.S.
◊ IATA	(ISOPROPYLMETHYLPHENOL), MARINE POLLUTANT
◊ <b>14.3 Transport hazard class(es)</b>	ALKYLPHENOLS, SOLID, N.O.S. (ISOPROPYLMETHYLPHENOL)
◊ ADR, IMDG, IATA	
◊ Class	8 Corrosive substances.
◊ Label	8
◊ <b>14.4 Packing group</b>	
◊ ADR, IMDG, IATA	III
◊ <b>14.5 Environmental hazards:</b>	
◊ Marine pollutant:	Yes
◊ Special marking (ADR):	Symbol (fish and tree)
◊ <b>14.6 Special precautions for user</b>	Symbol (fish and tree)
◊ Danger code (Kemler):	Warning: Corrosive substances.
◊ EMS Number:	80
◊ Stowage Category	F-A,S-B
◊ <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	A
◊ Transport/Additional information:	Not applicable.
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◊ ADR	
◊ Limited quantities (LQ)	5 kg
◊ Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
◊ Transport category	3
◊ Tunnel restriction code	E
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◊ IMDG	
◊ Limited quantities (LQ)	5 kg
◊ Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
◊ UN "Model Regulation":	UN 2430 ALKYLPHENOLS, SOLID, N.O.S.
	(ISOPROPYLMETHYLPHENOL), 8, III, ENVIRONMENTALLY HAZARDOUS

**. SECTION 15: Regulatory information**

- ◊ **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
822.115, Jugendarbeitsschutzverordnung - ArGV 5 und 822.115.2, Verordnung des WBF über gefährliche Arbeiten für Jugendliche sind zu beachten.  
ArGV 1 und 822.111.52, Verordnung des WBF über gefährliche und beschwerliche Arbeiten bei Schwangerschaft und Mutterschaft sind nicht zutreffend.

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◊ Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.

◊ Hazard pictograms



GHS05 GHS07 GHS09

◊ Signal word *Danger*

◊ Hazard-determining components of labelling:

2-Isopropyl-5-methylphenol

◊ Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H411 Toxic to aquatic life with long lasting effects.

◊ Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

◊ Directive 2012/18/EU

◊ Named dangerous substances - ANNEX I Substance is not listed.

◊ Seveso category E2 Hazardous to the Aquatic Environment

◊ Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

◊ Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

◊ National regulations:

◊ Waterhazard class: Klasse A (Assessment by list)

◊ **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**. SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

◊ Department issuing SDS: Regulatory Affairs

◊ Contact: Dr. Maja Zippel

◊ Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

◊ \* Data compared to the previous version altered.