

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.08.2024

Version 95 (replaces version 94)

Revision: 22.08.2024

**. 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.com

◊ **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.

Eye Dam. 1 H318 Causes serious 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

P260 Do not breathe dusts or mists.

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.

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 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 section 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**

◊ **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**

- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as 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.
  - Avoid contact with the eyes and skin.
- Respiratory protection: Not required.
- Hand protection
  - 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
  - Multichemical-resistant gloves, Category III acc. to Regulation (EC) 2016/425
    - 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/face 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**

◇ Physical state

Solid

◇ Colour:

Not determined.

◇ Odour:

Characteristic

◇ Odour threshold:

Not determined.

◇ Melting point/freezing point:

48-52 °C

◇ Flammability

Product is not flammable.

◇ Lower and upper explosion limit

◇ Lower:

1,4 Vol % (89-83-8 2-Isopropyl-5-methylphenol)

◇ Upper:

7,7 Vol % (89-83-8 2-Isopropyl-5-methylphenol)

◇ Flash point:

102 °C (89-83-8 2-Isopropyl-5-methylphenol)

◇ Auto-ignition temperature:

285 °C (89-83-8 2-Isopropyl-5-methylphenol)

◇ Decomposition temperature:

Not determined.

◇ pH

Not applicable.

◇ Solubility

◇ water at 40 °C:

1,4 g/l

Not miscible or difficult to mix.

◇ Partition coefficient n-octanol/water (log value)

Not determined.

◇ Density and/or relative density

◇ Density at 20 °C:

1 g/cm<sup>3</sup>

◇ Relative density

Not determined.

◇ Vapour density

Not applicable.

◇ Particle characteristics

See section 3.

**◇ 9.2 Other information**

◇ Appearance:

◇ Form:

Solid

◇ Important information on protection of health and environment, and on safety.

◇ Ignition temperature:

Not determined.

◇ Explosive properties:

Not determined.

◇ VOC (EC)

0,00 %

◇ Evaporation rate

Not applicable.

◇ Information with regard to physical hazard classes

◇ Explosives

Void

◇ Flammable gases

Void

◇ Aerosols

Void

◇ Oxidising gases

Void

◇ Gases under pressure

Void

◇ Flammable liquids

Void

◇ Flammable solids

Void

◇ Self-reactive substances and mixtures

Void

◇ Pyrophoric liquids

Void

◇ Pyrophoric solids

Void

◇ Self-heating substances and mixtures

Void

◇ Substances and mixtures, which emit flammable gases in contact with water

Void

◇ Oxidising liquids

Void

◇ Oxidising solids

Void

◇ Organic peroxides

Void

◇ Corrosive to metals

Void

◇ Desensitised explosives

Void

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**. 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 hazard classes as defined in Regulation (EC) No 1272/2008**
- ◊ Acute toxicity Harmful if swallowed.
- ◊ LD/LC50 values relevant for classification:  
**ATE (Acute Toxicity Estimates)**

Oral	LD50	980 mg/kg (rat)
------	------	-----------------

  
**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)
- ◊ Skin corrosion/irritation Causes severe skin burns and eye damage.
- ◊ Serious eye damage/irritation Causes serious eye damage.
- ◊ Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- ◊ 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.
- ◊ **11.2 Information on other hazards**
  - ◊ Endocrine disrupting properties  
Substance is not listed.

**. 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/mn	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.
- ◊ **12.5 Results of PBT and vPvB assessment**
  - ◊ PBT: Not applicable.
  - ◊ vPvB: Not applicable.
- ◊ **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

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◊ **12.7 Other adverse 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

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

**. SECTION 14: Transport information**

- ◊ **14.1 UN number or ID number**
- ◊ ADR, IMDG, IATA UN2430
- ◊ **14.2 UN proper shipping name**
- ◊ ADR ALKYLPHENOLE, FEST, N.A.G. (ISOPROPYLMETHYLPHENOL),  
UMWELTGEFÄHRDEND
- ◊ IMDG ALKYLPHENOLS, SOLID, N.O.S. (ISOPROPYLMETHYLPHENOL), MARINE  
POLLUTANT
- ◊ IATA ALKYLPHENOLS, SOLID, N.O.S. (ISOPROPYLMETHYLPHENOL)
- ◊ **14.3 Transport hazard class(es)**
- ◊ ADR, IMDG, IATA
- ◊ Class 8 Corrosive substances.
- ◊ Label 8
- ◊ **14.4 Packing group**
- ◊ ADR, IMDG, IATA III
- ◊ **14.5 Environmental hazards:**
- ◊ Marine pollutant: Yes  
Symbol (fish and tree)  
Symbol (fish and tree)
- ◊ Special marking (ADR): Warning: Corrosive substances.
- ◊ **14.6 Special precautions for user** 80
- ◊ Hazard identification number (Kemler code): F-A,S-B
- ◊ EMS Number: A
- ◊ Stowage Category
- ◊ **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- ◊ Transport/Additional information:
- 
- ◊ 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
- ◊ UN "Model Regulation": Maximum net quantity per inner packaging: 30 g  
Maximum net quantity per outer packaging: 1000 g  
UN 2430 ALKYLPHENOLE, FEST, N.A.G. (ISOPROPYLMETHYLPHENOL),  
8, III, UMWELTGEFÄHRDEND

**. 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.
- ◊ 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  
P260 Do not breathe dusts or mists.  
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.  
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
- ◊ DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II  
Substance is not listed.
- ◊ REGULATION (EU) 2019/1148
- ◊ Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))  
Substance is not listed.
- ◊ Annex II - REPORTABLE EXPLOSIVES PRECURSORS  
Substance is not listed.
- ◊ Regulation (EC) No 273/2004 on drug precursors  
Substance is not listed.
- ◊ Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors  
Substance is not listed.

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- ◊ 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
- ◊ Date of previous version: 29.04.2023
- ◊ Version number of previous version: 94
- ◊ 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 relatif au transport international 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
  - ATE: Acute toxicity estimate values
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Corr. 1B: Skin corrosion/irritation – Category 1B
  - Eye Dam. 1: Serious eye damage/eye irritation – Category 1
  - Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- ◊ \* Data compared to the previous version altered.