

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

Printing date 02.05.2019

Version 136

Revision: 02.05.2019

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

◊ **1.1 Product identifier**

◊ Trade name: **Anethol (synth.) DAB / 07-1200**

◊ Article number: S0400163

◊ CAS Number:

4180-23-8

◊ EC number:

224-052-0

◊ Registration number

-
01-2119979097-22-xxxx

◊ **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

Skin Sens. 1B H317 May cause an allergic skin reaction.

◊ **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



GHS07

◊ Signal word Warning

◊ Hazard statements

H317 May cause an allergic skin reaction.

◊ Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

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.

◊ vPvB: Not applicable.

. SECTION 3: Composition/information on ingredients

◊ **3.1 Chemical characterisation: Substances**

◊ CAS No. Description

4180-23-8 trans-Anethole

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- ◊ Identification number(s)
- ◊ EC number: 224-052-0

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. SECTION 4: First aid measures

- ◊ **4.1 Description of first aid measures**
 - ◊ After skin contact: Generally the product does not irritate the skin.
 - ◊ After eye contact: Rinse opened eye for several minutes under running water.
 - ◊ After swallowing: If symptoms persist consult doctor.
- ◊ **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:
CO₂, 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** No further relevant information available.
- ◊ **5.3 Advice for firefighters**
 - ◊ Protective equipment: No special measures required.

. SECTION 6: Accidental release measures

- ◊ **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- ◊ **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- ◊ **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
- ◊ **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**
 - ◊ Ensure good ventilation/exhaustion at the workplace.
 - ◊ No special precautions are necessary if used correctly.
- ◊ Information about fire - and explosion protection: No special measures required.
- ◊ **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: None.
 - ◊ Storage class: 10
- ◊ **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.

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◊ **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.
- ◊ *Respiratory protection: Not required.*
- ◊ *Protection of hands:*
 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: Goggles recommended during refilling*

. SECTION 9: Physical and chemical properties

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

◊ *General Information*

◊ *Appearance:*

Form:	Fluid
Colour:	Not determined.
Odour:	Characteristic
Odour threshold:	Not determined.

◊ *pH-value:* Not determined.

◊ *Melting point/freezing point:* 21-22 °C

◊ *Flash point:* >100 °C

◊ *Flammability (solid, gas):* Not applicable.

◊ *Decomposition temperature:* Not determined.

◊ *Auto-ignition temperature:* Not determined.

◊ *Explosive properties:* Not determined.

◊ *Explosion limits:*

Lower:	Not determined.
Upper:	Not determined.

◊ *Density at 20 °C:* 0,988 g/cm³

◊ *Relative density* Not determined.

◊ *Vapour density* Not determined.

◊ *Evaporation rate* Not determined.

◊ *Solubility in / Miscibility with water:*

Not miscible or difficult to mix.

◊ *Partition coefficient: n-octanol/water:* Not determined.

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

◊ **IMDG:** F-A, S-F

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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 toxicological effects**
 - ◊ *Acute toxicity* Based on available data, the classification criteria are not met.
 - ◊ *LD/LC50 values relevant for classification:*
 - Oral LD50 2.090 mg/kg (rat)
 - Dermal LD50 >5.000 mg/kg (rabbit)
 - ◊ *Primary irritant effect:*
 - ◊ *Skin corrosion/irritation* Based on available data, the classification criteria are not met.
 - ◊ *Serious eye damage/irritation* Based on available data, the classification criteria are not met.
 - ◊ *Respiratory or skin sensitisation*
 - ◊ *May cause an allergic skin reaction.*
 - ◊ *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:* No further relevant information available.
- ◊ **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:* Harmless to fish up to the tested concentration
 - ◊ *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.*
 - ◊ *Danger to drinking water if even small quantities leak into the ground.*
- ◊ **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

- ◊ **14.1 UN-Number**
 ADR, ADN, IMDG, IATA Void
- ◊ **14.2 UN proper shipping name**
 ADR, ADN, IMDG, IATA Void
- ◊ **14.3 Transport hazard class(es)**
 ADR, ADN, IMDG, IATA
 Class Void
- ◊ **14.4 Packing group**
 ADR, IMDG, IATA Void
- ◊ **14.5 Environmental hazards:**
 Marine pollutant: No
- ◊ **14.6 Special precautions for user**
 Not applicable.
- ◊ **EMS Number:**
 F-A, S-F
- ◊ **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
 Not applicable.
- ◊ **UN "Model Regulation":**
 Void

. 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**

 GHS07
- ◊ **Signal word Warning**
- ◊ **Hazard statements**
 H317 May cause an allergic skin reaction.
- ◊ **Precautionary statements**
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P321 Specific treatment (see on this label).
 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.**
- ◊ **REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3**
- ◊ **National regulations:**
- ◊ **Waterhazard class: Klasse A (Assessment by list)**
- ◊ **15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

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. 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)*
 - LC50: Lethal concentration, 50 percent*
 - LD50: Lethal dose, 50 percent*
 - PBT: Persistent, Bioaccumulative and Toxic*
 - vPvB: very Persistent and very Bioaccumulative*
 - Skin Sens. 1B: Skin sensitisation – Category 1B*
- ◊ ** Data compared to the previous version altered.*