

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Flairesse Varnish

Revision date: 13.09.2024

Product code: G000065

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Flairesse Varnish

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.3. Details of the supplier of the safety data sheet**

| | | |
|---------------|--|---------------------------------|
| Company name: | DMG Chemisch-Pharmazeutische Fabrik GmbH | |
| Street: | Elbgaustraße 248 | |
| Place: | D-22547 Hamburg | |
| Telephone: | +49. (0) 40. 84006-0 | Telefax: +49. (0) 40. 84006-222 |
| E-mail: | info@dmg-dental.com | |
| Internet: | www.dmg-dental.com | |

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Flam. Liq. 2; H225
 Eye Irrit. 2; H319
 Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**

l-carvone
 trans-menthone
 d-limonene
 (E)-anethole

Signal word: Danger**Pictograms:****Hazard statements**

H225 Highly flammable liquid and vapour.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P280 Wear protective gloves and eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water and soap.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container to an appropriate recycling or disposal facility.

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2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Relevant ingredients**

| CAS No | Chemical name | | | Quantity |
|-----------|--|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 64-17-5 | ethanol | | | 25 - < 30 % |
| | 200-578-6 | 603-002-00-5 | 01-2119457610-43 | |
| | Flam. Liq. 2, Eye Irrit. 2; H225 H319 | | | |
| 7681-49-4 | sodium fluoride | | | 5 - < 10 % |
| | 231-667-8 | 009-004-00-7 | 01-2119539420-47 | |
| | Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2; H301 H315 H319 EUH032 | | | |
| 6485-40-1 | l-carvone | | | 1 - < 5 % |
| | 229-352-5 | 606-148-00-8 | 01-2119962458-25 | |
| | Skin Sens. 1; H317 | | | |
| 89-80-5 | trans-menthone | | | < 1 % |
| | 201-941-1 | | 01-2120741994-43 | |
| | Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 3; H302 H315 H317 H412 | | | |
| 5989-27-5 | d-limonene | | | < 1 % |
| | 227-813-5 | 601-096-00-2 | 01-2119529223-47 | |
| | Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 3; H226 H315 H317 H304 H400 H412 | | | |
| 4180-23-8 | (E)-anethole | | | < 1 % |
| | 224-052-0 | | 01-2119979097-22 | |
| | Skin Sens. 1B; H317 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-----------|-----------|--|-------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 64-17-5 | 200-578-6 | ethanol | 25 - < 30 % |
| | | inhalation: LC50 = 124,7 mg/l (dusts or mists); oral: LD50 = 10470 mg/kg | |
| 7681-49-4 | 231-667-8 | sodium fluoride | 5 - < 10 % |
| | | dermal: LD50 = >2000 mg/kg; oral: LD50 = 148,5 mg/kg | |
| 6485-40-1 | 229-352-5 | l-carvone | 1 - < 5 % |
| | | oral: LD50 = 5400 mg/kg | |
| 89-80-5 | 201-941-1 | trans-menthone | < 1 % |
| | | dermal: LD50 = >5000 mg/kg; oral: LD50 = 1950 mg/kg | |
| 5989-27-5 | 227-813-5 | d-limonene | < 1 % |
| | | dermal: LD50 = > 5000 mg/kg Aquatic Acute 1; H400: M=1 | |

SECTION 4: First aid measures**4.1. Description of first aid measures**

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After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink 1 glass of water.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder.

5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

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Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.
Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits**

| CAS No | Substance | ppm | mg/m ³ | fib/cm ³ | Category | Origin |
|---------|-----------|------|-------------------|---------------------|---------------|--------|
| 64-17-5 | Ethanol | 1000 | - | | STEL (15 min) | |

8.2. Exposure controls**Individual protection measures, such as personal protective equipment****Eye/face protection**

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing .

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|---|----------------|
| Physical state: | Liquid |
| Colour: | |
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | > 78,29 °C |
| Flammability: | not determined |
| Lower explosion limits: | 2,5 vol. % |
| Upper explosion limits: | 13,5 vol. % |
| Flash point: | > 13 °C |
| Auto-ignition temperature: | not determined |

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| | |
|--|----------------|
| Decomposition temperature: | not determined |
| pH-Value: | not determined |
| Viscosity / kinematic: | not determined |
| Water solubility: | not determined |
| Solubility in other solvents not determined | |
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: | not determined |
| Density: | not determined |
| Relative vapour density: | not determined |
| Particle characteristics: | not applicable |

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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| CAS No | Chemical name | | | | |
|-----------|-------------------------------|---------------|---------|--------|--------------------------|
| | Exposure route | Dose | Species | Source | Method |
| 64-17-5 | ethanol | | | | |
| | oral | LD50 mg/kg | 10470 | Rat | supplier SDS OECD 401 |
| | inhalation (4 h) dust/mist | LC50 mg/l | 124,7 | Rat | supplier SDS OECD 403 |
| 7681-49-4 | sodium fluoride | | | | |
| | oral | LD50 mg/kg | 148,5 | Rat | supplier SDS |
| | dermal | LD50 mg/kg | >2000 | Rat | ECHA |
| 6485-40-1 | l-carvone | | | | |
| | oral | LD50 mg/kg | 5400 | Rat | ECHA OECD 401 |
| 89-80-5 | trans-menthone | | | | |
| | oral | LD50 mg/kg | 1950 | Rat | ECHA |
| | dermal | LD50 mg/kg | >5000 | Rabbit | ECHA |
| 5989-27-5 | d-limonene | | | | |
| | dermal | LD50 mg/kg | > 5000 | Rabbit | ECHA |

Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (l-carvone; trans-menthone; d-limonene; (E)-anethole)

Carcinogenic/mutagenic/toxic effects 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.

11.2. Information on other hazards**Other information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information**12.1. Toxicity**

Based on available data, the classification criteria are not met.

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| CAS No | Chemical name | | | | | |
|-----------|--------------------------|------------------|-----------|---------|---|--------------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 64-17-5 | ethanol | | | | | |
| | Acute fish toxicity | LC50 mg/l | 15300 | 96 h | Pimephales promelas (fathead minnow) | supplier SDS |
| | Acute algae toxicity | ErC50 | 275 mg/l | 72 h | Chlorella vulgaris | supplier SDS OECD 201 |
| 7681-49-4 | sodium fluoride | | | | | |
| | Acute fish toxicity | LC50 | 925 mg/l | 96 h | Gambusia affinis (Mosquito fish) | supplier SDS |
| | Acute algae toxicity | ErC50 | 850 mg/l | 72 h | Desmodesmus subspicatus | supplier SDS |
| | Acute crustacea toxicity | EC50 | 338 mg/l | 48 h | Daphnia magna (Big water flea) | supplier SDS |
| | Acute bacteria toxicity | EC50 mg/l () | 2930 | 3 h | Activated sludge | supplier SDS |
| 5989-27-5 | d-limonene | | | | | |
| | Acute fish toxicity | LC50 | 0,7 mg/l | 96 h | Pimephales promelas (fathead minnow) | ECHA OECD 203 |
| | Acute algae toxicity | ErC50 | 0,32 mg/l | 72 h | Pseudokirchneriella subcapitata | ECHA OECD 201 |
| | Acute crustacea toxicity | EC50 | 0,31 mg/l | 48 h | Daphnia magna (Big water flea) | ECHA OECD 202 |

12.2. Persistence and degradability

The product has not been tested.

| CAS No | Chemical name | | | |
|-----------|---|-------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 64-17-5 | ethanol | | | |
| | OECD 301E | 95% | 15 | |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | |
| 6485-40-1 | l-carvone | | | |
| | Persistence and degradability | 90% | 28 | |
| | Readily biodegradable (according to OECD criteria). | | | |
| 89-80-5 | trans-menthone | | | |
| | Persistence and degradability | 1,13% | 21 | |

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|-----------|----------------|---------|
| 64-17-5 | ethanol | -0,35 |
| 6485-40-1 | l-carvone | 2,74 |
| 89-80-5 | trans-menthone | 2,295 |
| 5989-27-5 | d-limonene | 5,69 |
| 4180-23-8 | (E)-anethole | 3,388 |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information**Land transport (ADR/RID)**

| | |
|--|---|
| 14.1. UN number or ID number: | UN 1170 |
| 14.2. UN proper shipping name: | ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |



| | |
|--------------------------|---------|
| Classification code: | F1 |
| Special Provisions: | 144 601 |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| Transport category: | 2 |
| Hazard No: | 33 |
| Tunnel restriction code: | D/E |

Marine transport (IMDG)

| | |
|--|---|
| 14.1. UN number or ID number: | UN 1170 |
| 14.2. UN proper shipping name: | ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |



| | |
|---------------------|----------|
| Special Provisions: | 144 |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| EmS: | F-E, S-D |

Air transport (ICAO-TI/IATA-DGR)

| | |
|---------------------------------------|------------------------|
| 14.1. UN number or ID number: | UN 1170 |
| 14.2. UN proper shipping name: | ETHYL ALCOHOL SOLUTION |

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14.3. Transport hazard class(es): 3**14.4. Packing group:** II

Hazard label: 3



| | | |
|--|-------------|------|
| Special Provisions: | A3 A58 A180 | |
| Limited quantity Passenger: | 1 L | |
| Passenger LQ: | Y341 | |
| Excepted quantity: | E2 | |
| IATA-packing instructions - Passenger: | | 353 |
| IATA-max. quantity - Passenger: | | 5 L |
| IATA-packing instructions - Cargo: | | 364 |
| IATA-max. quantity - Cargo: | | 60 L |

14.6. Special precautions for user

Warning: Combustible liquid.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Directive 2010/75/EU on industrial emissions: 0,312 %

Directive 2004/42/EC on VOC in paints and varnishes: 0,312 %

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

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Abbreviations and acronyms

Flam. Liq: Flammable liquid

Acute Tox: Acute toxicity

Asp. Tox: Aspiration hazard

Skin Irrit: Skin irritation

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

EC/EEC: European Community/European Economic Community

EU: European Union

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

M-factor: Multiplying factor

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

IATA: International Air Transport Association

DGR: Dangerous Goods Regulations

ICAO: International Civil Aviation Organization

TI: Technical Instructions

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: volatile organic compound

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification | Classification procedure |
|--------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data |
| Eye Irrit. 2; H319 | Calculation method |
| Skin Sens. 1; H317 | Calculation method |

Relevant H and EUH statements (number and full text)

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| | |
|--------|--|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H400 | Very toxic to aquatic life. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH032 | Contact with acids liberates very toxic gas. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)