

Safety Data Sheet

According to Regulation (EC) No 1907/2006, Article 31

Product name: alva Effitan Spray
Version: 1.0 / EN

Revision: 22.01.2013
Print Date: 12.02.2014

1 Identification of the substance/preparation and of the company/undertaking

- **Identification of the substance or preparation:**
Product name:
Alva Effitan Spray
- **Use of the substance/preparation:**
Ready for use insect repellent product for application on human or animal skin
- **Company/undertaking identification:**
alva naturkosmetik GmbH
Gewerbepark 19
D-49143 Bissendorf
Tel: +49/5402/64479-0
Email: info@alva.de
- **Emergency Telephone:**
alva naturkosmetik GmbH
Carola Palm
Gewerbepark 19
D-49143 Bissendorf
Tel: +49/5402/64479-47
Email: palm@alva.de

2 Hazards Identification

- **Hazard description:**
None (according to Directive 1999/45/EG).
- **Information concerning particular hazards for human and environment:**
Do not use if allergies against essential oils are known.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterisation:**
Watery emulsion for use as insect repellent ready-to-use formulation.
Active ingredient: p-Menthane-3,8-diol (notified active ingredient in the frame of the Review Programme as defined in Article 16(2) of the EC Directive 98/8/EC concerning biocidal products)
- **Hazardous chemical components:**
p-Menthane-3,8-diol; EINECS/ELINCS: 255-953-7; CAS: 42822-86-6
Percentage: 15%
Classification: Xi (irritant); R36
Tartaric acid; EINECS/ELINCS: 201-766-0; CAS: 87-69-4
Percentage: < 0,5%
Classification: Xi (irritant); R36
- **Substances being assigned Community workplace exposure limits:**
None
(For the wording of the listed risk phrases refer to section 16)

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4 First aid measures

- **General information:**
If you feel unwell, seek medical advice (show this data sheet or the label where possible).
- **After inhalation:**
Supply fresh air, calmness. If you feel unwell, seek medical advice.
- **After skin contact:**
None. Wash with water and soap is possible.
- **After eye contact:**
Remove contact lenses. Rinse opened eye immediately for at least 10 minutes under running water. Consult an eye specialist.
- **After swallowing:**
Rinse mouth with water (only if the person is conscious) and then drink plenty of water.
- **Notes to medical doctor:**
No further notes.

5 Fire-fighting measures

- **Suitable extinguishing media:**
Water spray, alcohol-resistant foam, dry powders, carbon dioxide (CO₂).
- **Extinguishing media which shall not be used for safety reasons:**
High volume water jet.
- **Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:**
The product is not combustible. In the event of fire use fire extinguishing methods suitable to surrounding conditions. Carbon monoxide (CO) and carbon dioxide (CO₂) can be formed under big heat.
- **Special protective equipment for fire-fighters:**
In the event of fire, wear self-contained respiratory protective device.
Avoid skin and eye contact by wearing suitable fire protection clothing and by observing an adequate safety distance.
- **Additional notes:**
Cool containers exposed to fire with spray water. Condense exhausting gases with water.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire fighting to enter drains or water courses.

6 Accidental release measures

- **Personal precautions:**
Ensure adequate ventilation. Avoid eye contact.
Refer to protective measures listed in Sections 7 and 8.
- **Environmental precautions:**
Do not allow to enter product volumes > 10L or big amounts of washing water (> 50L) into sewers. Do not allow to enter product or washing water into surface or ground water and ground. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.
- **Methods for cleaning up:**
Big amounts (> 10L): pump off product.
Small amounts: Contain and collect spillage with non-combustible and neutralising absorbent materials (e.g. sand, earth, vermiculite, diatomaceous earth) and place in containers for disposal according to local regulations (see section 13). Residues (< 1L) may be cleaned with

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much water and soap – sewage cleaning water.

- **Additional notes:**
None

7 Handling and storage

- **Handling**

Information for safe handling:

Use according to labelling. Comply with the health and safety at work laws. Ensure good ventilation/exhaustion at the workplace.

Observe general protective measures when handling chemical agents (e.g. according to safety report TRGS 500 edited by the German Federal Institute for Occupational Safety and Health - <http://www.baua.de/>). Avoid eye, skin and clothing contact. Clean working clothes with water and soap. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Avoid unnecessary and long exposure.

Information about protection against explosions and fires:

Take precautionary measures against static discharges. Keep away from ignition sources - No smoking. Avoid open fire and direct heat. Observe section 5.

Additional notes:

Do not use if allergies against essential oils are known.
Shake well before use.

- **Storage:**

Requirements to be met by storerooms and receptacles:

Store at room temperature, in any case between 10 and 40°C.

Always store in the original container. Store containers tightly closed in a dry, well-ventilated room.

Suitable container material: Polyethylene.

Suitable coating material: medical steel of minimum quality V4A.

Unsuitable container and coating material: all other metals and plastics.

Keep away from food, drink and animal feeding stuff.

German storage class (VCI): none

- **Specific use:**

Insect repellent according to Main Group 3 product-type 19 of Annex V of the EC Directive 98/8/EC („biocidal products directive“). Ready to use product especially to repel flying pests like mosquitoes, gnats and horseflies – for application on human and animal skin.

8 Exposure controls/personal protection

- **Exposure limit values**

Indicative limit values on the protection of workers of the European Union:

None

- **Exposure controls:**

Technical measures and application of suitable working procedures (as laid down in section 7) take priority of personal protection equipment.

Occupational exposure controls

Personal protection equipment

Respiratory protection:

Not necessary if used as intended.

Hand protection:

Not necessary if used as intended.

Eye protection:

Safety goggles (frame goggles with lateral protection) according to EN 166:2001.

Body protection:

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Not necessary if used as intended.

Hygiene measures:

Observe general protective measures when handling chemical agents (see section 7).
 Avoid contact with eyes/skin/clothes. Wash hands before breaks and at the end of workday. If you feel unwell, seek medical advice (show the data sheet or label where possible).

Environmental exposure controls:

See sections 6 and 7. No further measures are required.

9 Physical and chemical properties

- General information:**

Form: Liquid emulsion
Colour: white
Odour: essential oil

- Important health, safety and environmental information**

| Value | | | Method |
|-------------------------------------|----------------|-----------------------------|------------|
| pH value: | 5.5-6.5 | | |
| Boiling point/boiling range: | (1013 hPa) | 90-100 °C | DIN 53 171 |
| Melting point/-range: | (1013 hPa) | 4-8 °C | Calculated |
| Flash point: | | > 100 °C | DIN 51 758 |
| Flammability (solid, gas): | Not determined | | |
| Explosive properties: | Not determined | | |
| Oxidising properties: | Not determined | | |
| Vapour pressure: | Not determined | | |
| Relative density: | (20°C) | 0.98-1.01 g/cm ³ | Calculated |
| Viscosity: | | < 20 mPa·s | DIN 53 015 |
| Solubility: | | | |
| Water solubility: | emulsifiable | | |
| Fat solubility: | Not determined | | |
| Partition coefficient: | | | |
| n-octanol/water: | Not determined | | |
| Vapour density: | Not determined | | |
| Evaporation rate:: | Not determined | | |

- Other information:**

No other information has been determined.

10 Stability and reactivity

- Conditions to avoid:**

No decomposition if used as intended (see section 7).
 Avoid heat and flames.

- Materials to avoid:**

No dangerous reactions are expected if used as intended. Keep away from strong oxidizing agents, alkaline earths and all kinds of alkaline materials – danger of exothermic reactions and formation of hazardous gas (e.g. hydrogen). The active ingredient decomposes at alkaline pH values.

- Hazardous decomposition products:**

Carbon dioxide (CO₂) and carbon monoxide (CO) when exposed to high temperatures.

11 Toxicological information

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The preparation has been tested and assessed following the conventional method of the Dangerous Preparations Directive (1999/45/EC) and classified for toxicological hazards accordingly. See section 2 and 15 for details.

- **Toxicological Tests:**

LD50 (oral, rat): > 5'000 mg/kg
 LD50 (dermal, rabbit): > 5'000 mg/kg
 Acute inhalatory toxicity (rat): not acute inhalatory toxic
 Eye irritation (rabbit): Not eye irritating
 Skin irritation (rabbit): Not skin irritating
 Skin sensitisation (guinea pig): Not sensitising

- **Praxis information:**

No dangers other than labelled are known if section 7 and 8 are observed.

- **Information on components:**

p-Menthane-3,8-diol:
 LD50 (oral, rat): > 5'000 mg/kg
 LD50 (dermal, rabbit): > 5'000 mg/kg
 Irritating to eyes.

12 Ecological information

The preparation has been tested and assessed following to the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment. The following ecological information has been assessed on basis of the contained raw materials and/or structural similar chemicals.

- **Ecotoxicity:**

German water hazard class 1 (Self classification according to VwVwS): slightly hazardous for waters.

Aquatic toxicity:

Acute fish toxicity (orfe - DIN 38412T15 or zebra fish - ISO 7346):

LC50 > 100 mg/l

Acute bacteria toxicity: (oxygen consumption test *Pseudomonas putida*):

EC50 > 100 mg/l

- **Mobility:**

No data available. The product is ready biodegradable.

- **Persistence and degradability:**

The product is ready biodegradable: All contained substances are ready biodegradable. Test results according OECD 301 A-F for the organic substances: > 60% BOD/COD or > 70% DOC-reduction after 28 days.

- **Bioaccumulative potential:**

No data available. Due to the composition presumably no potential for bioaccumulation.

- **Results of PBT assessment:**

No data available. Due to the composition presumably not persistent, bioaccumulative or toxic.

- **Other adverse effects:**

None known and not likely due to the chemical composition. Does not disturb sewage treatment plants according to present experience.

13 Disposal considerations

- **Substance/preparation**

Disposal must be made according to official local regulations. Do not allow into drains or water courses.

Recommendation:

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Clarify the exact Waste Code with your disposer.

Suggested European Waste Code according to Commission Decision

2000/532/EC:

07 04 99 (waste from the manufacture, formulation, supply and use of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides).

- **Packaging – Suggested European Waste Code according to 2000/532/EC**

Contaminated packaging:

15 01 10 (packaging containing residues of or contaminated by dangerous substances).

Cleaned packaging:

Cleaned, not contaminated packaging can be recycled. Recommended cleaning agent: water and soap. 15 01 02 (plastic packaging).

14 Transport information

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

- **ADR/RID classification (cross-border):**
class: None
- **IMDG classification:**
IMDG-Code: None
Marine Pollutant: No
- **ICAO-TI/IATA-DGR Classification:**
class: None
- **Transport - additional information:**
Not dangerous goods according to the above specifications.

15 Regulatory information

- **Labelling according to Directive 1999/45/EC**
Symbol and indication of danger of the product:
None
Hazardous components which must be listed on the label:
15 % p-Menthane-3,8-diol (due to Biocidal Directive 98/8/EC)
Risk phrases:
None
Safety phrases
26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
35 This material and its container must be disposed of in a safe way.
37/39 Wear suitable gloves and eye/face protection.
- **EC Regulations**
The product fulfils the criteria as defined in EC Directive 98/8/EC concerning biocidal products.
- **Chemical Safety Assessment:**
Chemical Safety Assessment of substances contained in this preparation has not been carried out.
- **National Regulations - Germany**
Verwaltungsvorschrift wassergefährdende Stoffe – VwVwS
Hazard class: 1 slightly hazardous for water (Self classification according to VwVwS, Annex 4).

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16 Other information

- **EC Regulations**

Dangerous Preparations Directive (1999/45/EC, last amended by 2006/8/EC)
Dangerous Substances Directive (67/548/EEC, last amended by 2006/121/EC)
REACH Regulation (EC) No 1907/2006
Biocidal Products Directive (98/8/EC, last amended by 2007/20/EC)
Indicative Occupational Exposure Limit Values Directive (80/1107/EEC and 98/24/EC, last amended by 2006/15/EC)
List of Wastes (2000/532/EC, last amended by 2001/573/EC)

- **Recommended restrictions on use**

Do not use if allergies against essential oils are known.

- **Explanation of risk phrases mentioned in sections 2 and 3**

36 Irritating to eyes.

- **Additional information:**

None.

- **Added, deleted or revised information**

Adaptation according to REACH Regulation (EC) No 1907/2006

The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under sections 1 and 7 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.
This SDS replaces all former versions.