

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

Printing date 24.09.2013

Revision: 24.09.2013

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

1.1 Product identifier

Trade name: VERBENA NATURAL

Article number: 2117

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

Application of the substance / the preparation Multi uses

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Butterbur and Sage Ltd, Arom House,
3 - 5 Cremyll Road, Reading, Berkshire, RG1 8NQ. U.K
TEL : + 44 (0) 1189 505100
FAX : + 44 (0) 1189 576300
e-mail : info@butterandsage.com

Further information obtainable from: Department Essential Oils

1.4 Emergency telephone number: + 44 (0) 1189 505100

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

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




GHS07


Skin Irrit. 2 H315 Causes skin irritation.

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

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

 Xi; Irritant

R36/38: Irritating to eyes and skin.

 Xi; Sensitising

R43: May cause sensitisation by skin contact.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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. Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

. 2.2 Label elements**. Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

. Hazard pictograms

GHS05 GHS07 GHS09

. Signal word Danger**. Hazard-determining components of labelling:**

Citral
Geraniol
citronellal
Citronellol

. Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

. Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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 or doctor/physician.
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

. 3.2 Chemical characterization: Mixtures**. Description:** NCS (UVCB) Constituents Information**. hazardous components:**

CAS: 5392-40-5 EINECS: 226-394-6	Citral ☒ Xi R38; ☒ Xi R43 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 106-23-0 EINECS: 203-376-6	citronellal ☒ Xi R38; ☒ Xi R43; ☒ N R51/53 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-25%

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CAS: 106-24-1 EINECS: 203-377-1	Geraniol ☒ Xi R38-41; ☒ Xi R43 ☠ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; Skin Sens. 1, H317	2.5-10%
CAS: 87-44-5 EINECS: 201-746-1	beta-caryophyllene ☒ Xn R65 ☠ Asp. Tox. 1, H304	2.5-10%
CAS: 470-82-6 EINECS: 207-431-5	Eucalyptol R10 ☠ Flam. Liq. 3, H226	2.5-10%
CAS: 106-22-9 EINECS: 203-375-0	Citronellol ☒ Xi R38; ☒ Xi R43; ☠ N R51/53 ☠ Aquatic Chronic 2, H411; ☠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	2.5-10%
CAS: 78-70-6 EINECS: 201-134-4	Linalool ☒ Xi R38 ☠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤ 2.5%
CAS: 5989-27-5 EINECS: 227-813-5	d-limonene ☒ Xi R38; ☒ Xi R43; ☠ N R50/53 R10 ☠ Flam. Liq. 3, H226; ☠ Asp. Tox. 1, H304; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≤ 2.5%
CAS: 80-56-8 EINECS: 201-291-9	pin-2(3)-ene ☒ Xn R65; ☒ Xi R38; ☒ Xi R43 R10 ☠ Flam. Liq. 3, H226; ☠ Asp. Tox. 1, H304; ☠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≤ 2.5%
CAS: 105-87-3 EINECS: 203-341-5	Geranyl Acetate ☠ N R51/53 ☠ Aquatic Chronic 2, H411	≤ 2.5%
CAS: 150-84-5 EINECS: 205-775-0	citronellyl acetate ☒ Xi R38; ☠ N R51/53 ☠ Aquatic Chronic 2, H411; ☠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤ 2.5%
CAS: 127-91-3 EINECS: 204-872-5	béta pinène ☒ Xn R65; ☒ Xi R38; ☒ Xi R43 R10 ☠ Flam. Liq. 3, H226; ☠ Asp. Tox. 1, H304; ☠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≤ 2.5%
CAS: 97-53-0 EINECS: 202-589-1	Eugenol ☒ Xi R36; ☒ Xi R43 ☠ Eye Irrit. 2, H319; Skin Sens. 1, H317	≤ 2.5%
CAS: 99-87-6 EINECS: 202-796-7	p-cymene ☒ Xn R65; ☠ N R51/53 R10 ☠ Flam. Liq. 3, H226; ☠ Asp. Tox. 1, H304; ☠ Aquatic Chronic 2, H411	≤ 2.5%

Additional information: For the wording of the listed risk phrases refer to section 16.

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SECTION 4: First aid measures

- . **4.1 Description of first aid measures**
- . **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air.
- . **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
If skin irritation continues, consult a doctor.
- . **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- . **After swallowing:** Inform doctor. Do not give milk or fatty oils.
- . **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, powder, foam
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** Carbon monoxide (CO)
- . **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:**
Inform respective authorities in case of seepage into water course or sewage system.
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).
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**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- . **Information about fire - and explosion protection:** No special measures required.

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- . **7.2 Conditions for safe storage, including any incompatibilities**
- . **Storage:**
- . **Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:**
 - Keep receptacle tightly sealed.
 - Store in the dark.
- . **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:**
 - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- . **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.
- Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- . **Material of gloves**
 - 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- . **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.

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. Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

. General Information

. Appearance:

Form:	Liquid
Colour:	According to product specification
Odour:	Characteristic

. Change in condition

Melting point/Melting range: Undetermined.

. Flash point (Pensky Martens DIN 51 758 method): > 100 °C

. Flammability (solid, gaseous): Not applicable.

. Ignition temperature:

Decomposition temperature: Not determined.

. Self-igniting: Product is not selfigniting.

. Danger of explosion: Product does not present an explosion hazard.

. Density: Not determined.

. Evaporation rate: Not determined.

. Solubility in / Miscibility with water:

Not miscible or difficult to mix.

. 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

. 10.1 Reactivity

. 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:

. Primary irritant effect:

. on the skin: Irritant to skin and mucous membranes.

. on the eye: Irritating effect.

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- . **Sensitization:** Sensitization possible through skin contact.
- . **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

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:** Toxic for fish
- . **Additional ecological information:**
- . **General notes:**
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
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.
- . **Uncleaned packaging:**
- . **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---------------------------------------|--|
| . 14.1 UN-Number | |
| . ADR, IMDG, IATA | UN3082 |
| . 14.2 UN proper shipping name | |
| . ADR | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (citronellal, DIPENTENE) |
| . IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (citronellal, DIPENTENE), MARINE POLLUTANT |
| . IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (citronellal, DIPENTENE) |

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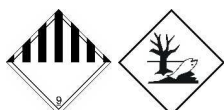
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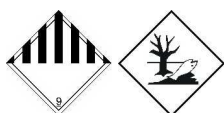
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. 14.3 Transport hazard class(es)**. ADR**

. Class 9 (M6) Miscellaneous dangerous substances and articles.
. Label 9

. IMDG, IATA

. Class 9 Miscellaneous dangerous substances and articles.
. Label 9

. 14.4 Packing group**. ADR, IMDG, IATA** III**. 14.5 Environmental hazards:** Product contains environmentally hazardous substances: d-limonene**. Marine pollutant:** Yes
Symbol (fish and tree)**. Special marking (ADR):** Symbol (fish and tree)**. Special marking (IATA):** Symbol (fish and tree)**. 14.6 Special precautions for user** Warning: Miscellaneous dangerous substances and articles.**. Danger code (Kemler):** 90**. EMS Number:** F-A,S-F**. 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.**. Transport/Additional information:****. ADR****. Limited quantities (LQ)** 5L**. Transport category** 3**. Tunnel restriction code** E**. UN "Model Regulation":** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (citronellal, DIPENTENE), 9, III**SECTION 15: Regulatory information****. 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

. Relevant phrases

- H226 *Flammable liquid and vapour.*
 H304 *May be fatal if swallowed and enters airways.*
 H315 *Causes skin irritation.*
 H317 *May cause an allergic skin reaction.*
 H318 *Causes serious eye damage.*
 H319 *Causes serious eye irritation.*
 H400 *Very toxic to aquatic life.*
 H410 *Very toxic to aquatic life with long lasting effects.*
 H411 *Toxic to aquatic life with long lasting effects.*
 R10 *Flammable.*
 R36 *Irritating to eyes.*
 R38 *Irritating to skin.*
 R41 *Risk of serious damage to eyes.*
 R43 *May cause sensitisation by skin contact.*
 R50/53 *Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
 R51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
 R65 *Harmful: may cause lung damage if swallowed.*

. Department issuing MSDS: Department Essentials Oils

. Abbreviations and acronyms:

- 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 Harmonized System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)

. Sources Sandy Sage / Technical Manager

- . * Data compared to the previous version altered.**