Printing date 05/02/2013

Reviewed on 04/07/2008

## 1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- Trade name: VERBENA
- · Article number: K04918
- Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- · Application of the preparation: Fragrance
- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

CAMDEN-GREY ESSENTIAL OILS

3567 NW 82 Avenue, Doral, FL 33122

Tel: 305-500-9630 / Fax: 305-500-9425

www.camdengrey.com

 $\cdot \textbf{Information department:} \ Technical \ Services \ Department$ 

### 2 Hazards identification

· Classification of the substance or mixture



GHS08 Health hazard

H304 May be fatal if swallowed and enters airways.



GHS07

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H227 Combustible liquid.

- · Label elements
- GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

- Hazard pictograms GHS07, GHS08
- · Signal word Danger
- · Hazard-determining components of labelling:

2,6-Octadienal, 3,7-dimethyl-

Lemon oil

HEXYL CINNAMIC ALDEHYDE ALPHA

2,6-Octadien-1-ol, 3,7-dimethyl-, (E)-

· Hazard statements

Combustible liquid.

Causes skin irritation.

May cause an allergic skin reaction.

(Cont'd. on page 2)

Printing date 05/02/2013

Reviewed on 04/07/2008

Trade name: VERBENA

(Cont'd of page 1)

May be fatal if swallowed and enters airways.

· Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Specific treatment (see on this label).

Store locked up.

 ${\it Dispose of contents/container in accordance\ with\ local/regional/national/international\ regulations.}$ 

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 2Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 2 Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

## 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous	Dangerous components:	
120-51-4	Benzyl benzoate	
	2,6-Octadienal, 3,7-dimethyl-	
	Lemon oil № H226; & H304; ① H315; H317	
101-86-0	HEXYL CINNAMIC ALDEHYDE ALPHA ① H317	
1222-05-5	GALAXOLIDE	

(Cont'd. on page 3)

Printing date 05/02/2013

Reviewed on 04/07/2008

Trade name: VERBENA

	(Cont'd. of page 2)
106-24-1	2,6-Octadien-1-ol, 3,7-dimethyl-, (E)-
106-22-9	Citronellol
	♦ H315; H317; H227
5989-27-5	тиниция при
	♦ H226; ♦ H315; H317
8008-57-9	ORANGE OIL CP MID-SEASON
	♠ H226; ♣ H304; ♠ H315; H317

## 4 First aid measures

- Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### 5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions:

Do not allow product to reach sewage system or any water course.

 ${\it Inform\ respective\ authorities\ in\ case\ of\ seepage\ into\ water\ course\ or\ sewage\ system.}$ 

Do not allow to enter sewers/ surface or ground water.

(Cont'd. on page 4)

Printing date 05/02/2013

Reviewed on 04/07/2008

Trade name: VERBENA

(Cont'd. of page 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.

Ensure adequate ventilation.

· 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.

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: No special measures required.
- · 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.
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- Components with limit values that require monitoring at the workplace:

#### 5392-40-5 2,6-Octadienal, 3,7-dimethyl-

TLV 5\* ppm

Skin; SEN; \*inhalable fraction and vapor

- Additional information: The lists that were valid during the creation were used as basis.
- · 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 skin.

Avoid contact with the eyes and skin.

(Cont'd on page 5)

USA ·

Printing date 05/02/2013

Reviewed on 04/07/2008

Trade name: VERBENA

(Cont'd. of page 4)

- IISA

#### · Breathing equipment:

In case of intensive or long exposure in low ventilation areas, it is suggested that a respiratory protective device be used.

· 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling.

Information on basic physical and chemical properties				
· General Information				
· Appearance:				
Form:	liquid			
Color:	According to product specification			
· Odor:	Characteristic			
Odor threshold:	Not determined.	*		
· pH-value:	Not determined.			
· Change in condition				
Melting point/Melting range:	Undetermined.			
Boiling point/Boiling range:	228 °C (442 °F)			
Flash point:	72 °C (162 °F)	ř		
· Flammability (solid, gaseous):	Not applicable.			
Ignition temperature:	480 °C (896 °F)			
Decomposition temperature:	Not determined.			
		(Cont'd. o	n nag	

Printing date 05/02/2013

Reviewed on 04/07/2008

Trade name: VERBENA

		(Cont'd. of pag
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Not determined.	4
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	W.
Vapor pressure at 20 °C (68 °F):	0.168 hPa	
Specific gravity:	1.0079	
Refractive Index @ 20C	1.5274	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wat	e <b>r):</b> Not determined.	
Viscosity:		'
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		· · · · · · · · · · · · · · · · · · ·
Organic solvents:	0.2 %	
Solids content:	-	
Other information	No further relevant information available.	

## 10 Stability and reactivity

- Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- $\cdot \textbf{\textit{Conditions to avoid}} \ \textit{No further relevant information available}.$
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

— USA

(Cont'd. on page 7)

Printing date 05/02/2013

Reviewed on 04/07/2008

Trade name: VERBENA

(Cont'd. of page 6)

	toxicity:	
LD/LO	C50 values that are relevant for classification:	
120-5	1-4 Benzyl benzoate	
	LD50 1700 mg/kg (rat)	
Derma	al LD50 4000 mg/kg (rabbit)	
8008	56-8 Lemon oil	**
Oral	LD50 2840 mg/kg (rat)	

- · on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.

11 Toxicological information

- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful Irritant

Carcinogenic categories	
· IARC (International Agency for Research on Cancer)	
5989-27-5 D'LIMONENE	3
NTP (National Toxicology Program)	
None of the ingredients are listed.	

## 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- Additional ecological information:
- General notes:

Water hazard class 2 (Self-assessment): 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.

Harmful to aquatic organisms

(Cont'd. on page 8)

Printing date 05/02/2013

Reviewed on 04/07/2008

Trade name: VERBENA

(Cont'd. of page 7)

- · Results of PBT and vPvB assessment
- · PBT: Not applicable. · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- $\cdot$  Recommendation: Disposal must be made according to official regulations.

4 Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	N/A
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	N/A
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	N/A
Packing group DOT, ADR, IMDG, IATA	N/A
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
· UN "Model Regulation":	-

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara
- · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

(Cont'd on page 9)

Printing date 05/02/2013

Reviewed on 04/07/2008

Trade name: VERBENA

(Cont'd of page 8)

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients are listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

· Hazard pictograms GHS07, GHS08

· Signal word Danger

Hazard-determining components of labelling:

2,6-Octadienal, 3,7-dimethyl-

Lemon oil

HEXYL CINNAMIC ALDEHYDE ALPHA

2,6-Octadien-1-ol, 3,7-dimethyl-, (E)-

· Hazard statements

Combustible liquid.

Causes skin irritation.

May cause an allergic skin reaction.

May be fatal if swallowed and enters airways.

· Precautionary statements

If medical advice is needed, have product container or label at hand.

 ${\it Keep out of reach of children}.$ 

Read label before use.

(Cont'd on page 10)

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Trade name: VERBENA

(Cont'd. of page 9)

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Specific treatment (see on this label).

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 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 MSDS: Technical Services Department
- · Contact: Technical Services Department
- 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)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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