



SAFETY DATA SHEET

JELLY BELLY 3D AIR FRESHENER - Tangerine

According to Regulation (EC) No 1907/2006, Annex II, as amended., Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name JELLY BELLY 3D AIR FRESHENER - Tangerine

Product number 15212

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Air Freshener

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Custom Accessories Europe
The Granary
Standen Manor
Hungerford
Berkshire
RG17 0RB
UK
T: +44 (0) 1488 662770
F: +44 (0) 1488 662771
E: info@caeurope.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0) 1488 662770 (9:00-17:00 Monday - Friday)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

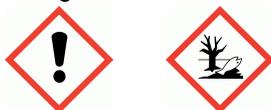
Health hazards Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

Human health The product contains a small amount of sensitising substance. See Section 11 for additional information on health hazards.

2.2. Label elements

Pictogram



Signal word Warning

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Hazard statements	H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P102 Keep out of reach of children. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with local regulations.
Contains	linalool, d-limonene, citral, orange, sweet, ext., (E)-dodec-2-en-1-al, trans-2-hexenal, sinensal

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

benzyl benzoate 5-10% CAS number: 120-51-4 EC number: 204-402-9 M factor (Acute) = 1
Classification Acute Tox. 4 - H302 Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412
linalool 1-5% CAS number: 78-70-6 EC number: 201-134-4
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1B - H317
d-limonene 1-5% CAS number: 5989-27-5 EC number: 227-813-5 M factor (Acute) = 1 M factor (Chronic) = 1
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

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citral	1-5%
CAS number: 5392-40-5 EC number: 226-394-6	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317	
orange, sweet, ext.	1-5%
CAS number: 8028-48-6 EC number: 232-433-8	
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	
(E)-dodec-2-en-1-al	<1%
CAS number: 20407-84-5 EC number: 243-797-2	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1B - H317	
trans-2-hexenal	<1%
CAS number: 6728-26-3 EC number: 229-778-1	
Classification Flam. Liq. 3 - H226 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
sinensal	<1%
CAS number: 8028-48-6 EC number: 232-433-8	
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
Inhalation	The product is considered to be a low hazard under normal conditions of use. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Rinse immediately with plenty of water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Get medical attention if irritation persists after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse cautiously with water for several minutes. Get medical attention if any discomfort continues.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. The product contains a small amount of sensitising substance.
Inhalation	Symptoms following overexposure may include the following: Headache.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	May cause sensitisation or allergic reactions in sensitive individuals.
Eye contact	May be slightly irritating to eyes.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	None known.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO ₂). Carbon monoxide (CO).

5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Avoid contact with eyes and prolonged skin contact.

6.2. Environmental precautions

Environmental precautions Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. The product contains a sensitising substance. Persons susceptible to allergic reactions should not handle this product. Wash hands thoroughly after handling.

Advice on general occupational hygiene No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep in a cool place. Do not store near heat sources or expose to high temperatures.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Ingredient comments No exposure limits known for ingredient(s).

8.2. Exposure controls

Appropriate engineering controls Provide adequate ventilation.

Eye/face protection No specific eye protection required during normal use. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection No specific requirements are anticipated under normal conditions of use. Large Spillages: Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374.

Hygiene measures Good personal hygiene procedures should be implemented. Persons susceptible to allergic reactions should not handle this product. When using do not eat, drink or smoke. Wash hands thoroughly after handling.

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Respiratory protection No specific requirements are anticipated under normal conditions of use. Large Spillages: Provide adequate ventilation. If ventilation is inadequate, suitable respiratory protection must be worn. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked.

Environmental exposure controls Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Solid.
Colour	Orange.
Odour	Citrus.
Odour threshold	Not available.
pH	Not applicable.
Melting point	Not available.
Initial boiling point and range	Not applicable.
Flash point	Not available.
Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Bulk density	Not available.
Solubility(ies)	Not available.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

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10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 28,333.33

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation May cause sensitisation or allergic reactions in sensitive individuals.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

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Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant. Solid.

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure. The product contains a sensitising substance.

Inhalation

Symptoms following overexposure may include the following: Headache.

Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contact

May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact

May cause temporary eye irritation.

Route of entry

Inhalation Ingestion Skin and/or eye contact

Toxicological information on ingredients.

benzyl benzoate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,700.0

Species Rat

Notes (oral LD₅₀) Harmful if swallowed.

ATE oral (mg/kg) 1,700.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rabbit

Notes (dermal LD₅₀) Estimated value. REACH dossier information. Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 2,001.0

Skin corrosion/irritation

Animal data

Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: No oedema (0). REACH dossier information. Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation

Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro

Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

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Genotoxicity - in vivo DNA damage and/or repair: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 781 mg/kg/day, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

linalool

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,790.0

Species Rat

Notes (oral LD₅₀) REACH dossier information. Based on available data the classification criteria are not met.

ATE oral (mg/kg) 2,790.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,610.0

Species Rabbit

Notes (dermal LD₅₀) REACH dossier information. Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 5,610.0

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Very slight oedema - barely perceptible (1). REACH dossier information. Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 ml, 1 second, Rabbit REACH dossier information. Causes serious eye irritation.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information. May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Screening - NOAEL 500 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

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Reproductive toxicity - development Maternal toxicity: - NOAEL: 500 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 160 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

d-limonene

Acute toxicity - oral

Notes (oral LD₅₀) > 2000 mg/kg Rat REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) > 5000 mg/kg Rat REACH dossier information. Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Very slight oedema - barely perceptible (1). REACH dossier information. Irritating.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vivo DNA damage and/or repair: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity No evidence of carcinogenicity in animal studies.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 1650 mg/kg/day, Oral, Mouse REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Aspiration hazard if swallowed.

citral

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 6,800.0

Species Rat

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Notes (oral LD₅₀)	REACH dossier information. Based on available data the classification criteria are not met.
ATE oral (mg/kg)	6,800.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	2,001.0
Species	Rat
Notes (dermal LD₅₀)	REACH dossier information. Based on available data the classification criteria are not met.
ATE dermal (mg/kg)	2,001.0
<u>Skin corrosion/irritation</u>	
Animal data	Dose: , 2 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Slight oedema - edges of area well defined by definite raising (2). REACH dossier information. Irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	REACH dossier information. Causes serious eye irritation.
<u>Skin sensitisation</u>	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEL 60 mg/kg/day, Oral, Mouse REACH dossier information. Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Screening - NOAEL 200 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEL 60 mg/kg/day, Oral, Mouse REACH dossier information. Based on available data the classification criteria are not met.
<u>orange, sweet, ext.</u>	
<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	5,001.0
Species	Rat
Notes (oral LD₅₀)	Estimated value. REACH dossier information. Based on available data the classification criteria are not met.

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ATE oral (mg/kg) 5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,001.0

Species Rabbit

Notes (dermal LD₅₀) Estimated value. REACH dossier information. Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 5,001.0

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Slight oedema - edges of area well defined by definite raising (2). REACH dossier information. Irritating to skin.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 5 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Aspiration hazard if swallowed.

trans-2-hexenal

Toxicological effects No information available.

sinensal

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,001.0

Species Rat

Notes (oral LD₅₀) Estimated value. REACH dossier information. Based on available data the classification criteria are not met.

ATE oral (mg/kg) 5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,001.0

Species Rabbit

JELLY BELLY 3D AIR FRESHENER - Tangerine

Notes (dermal LD₅₀)	Estimated value. REACH dossier information. Based on available data the classification criteria are not met.
ATE dermal (mg/kg)	5,001.0
<u>Skin corrosion/irritation</u>	
Animal data	Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Slight oedema - edges of area well defined by definite raising (2). REACH dossier information. Irritating to skin.
<u>Skin sensitisation</u>	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	Does not contain any substances known to be carcinogenic.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEL 5 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Aspiration hazard if swallowed.

SECTION 12: Ecological Information

12.1. Toxicity

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

Ecological information on ingredients.

benzyl benzoate

<u>Acute aquatic toxicity</u>	
LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 2.32 mg/l, Brachydanio rerio (Zebra Fish) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 3.09 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 0.475 mg/l, Pseudokirchneriella subcapitata REACH dossier information.
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.258 mg/l, Daphnia magna REACH dossier information.

linalool

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Acute toxicity - fish LC₅₀, 96 hours: 27.8 mg/l, Onchorhynchus mykiss (Rainbow trout)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 59 mg/l, Daphnia magna
REACH dossier information.

Acute toxicity - aquatic plants EC₅₀, 96 hours: 88.3 mg/l, Scenedesmus subspicatus
REACH dossier information.

d-limonene

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 0.720 mg/l, Pimephales promelas (Fat-head Minnow)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.36 mg/l, Daphnia magna
REACH dossier information.

Acute toxicity - aquatic plants EC₅₀, 72 hours: 150 mg/l, Desmodemus subspicatus
REACH dossier information.

Chronic aquatic toxicity

NOEC 0.001 < NOEC ≤ 0.01

Degradability Rapidly degradable

M factor (Chronic) 1

citral

Acute toxicity - fish LC₅₀, 96 hours: 6.78 mg/l, Leuciscus idus (Golden orfe)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 6.8 mg/l, Daphnia magna
REACH dossier information.

Acute toxicity - aquatic plants EC₅₀, 72 hours: 103.8 mg/l, Scenedesmus subspicatus
REACH dossier information.

orange, sweet, ext.

Acute toxicity - fish LL₅₀, 96 hours: 5.65 mg/l, Brachydanio rerio (Zebra Fish)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.1 mg/l, Daphnia magna
REACH dossier information.

Acute toxicity - aquatic plants EC₅₀, 96 hours: 150 mg/l, Desmodemus subspicatus
REACH dossier information.

trans-2-hexenal

Toxicity There are no data on the ecotoxicity of this product.

sinensal

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Acute toxicity - fish	LL ₅₀ , 96 hours: 5.65 mg/l, Brachydanio rerio (Zebra Fish) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 1.1 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: 150 mg/l, Desmodesmus subspicatus REACH dossier information.

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

benzyl benzoate

Biodegradation	Water - Degradation 94: 28 days REACH dossier information. The substance is readily biodegradable.
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linalool

Biodegradation	Water - Degradation 64.2: 28 days REACH dossier information. The substance is readily biodegradable.
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d-limonene

Phototransformation	Water - DT ₅₀ : 0.365 hours REACH dossier information.
Biodegradation	The substance is readily biodegradable.

citral

Phototransformation	Water - Degradation 50: 37.35 minutes REACH dossier information.
Biodegradation	Water - Degradation 90: 28 days REACH dossier information. The substance is readily biodegradable.

orange, sweet, ext.

Persistence and degradability	The degradability of the product is not known.
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trans-2-hexenal

Persistence and degradability	The degradability of the product is not known.
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sinensal

Persistence and degradability	The degradability of the product is not known.
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12.3. Bioaccumulative potential

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Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

Ecological information on ingredients.

benzyl benzoate

Bioaccumulative potential BCF: ~ 193.4, REACH dossier information. The product is not bioaccumulating.

Partition coefficient log Pow: ~ 3.97 REACH dossier information.

linalool

Partition coefficient log Pow: 2.9 REACH dossier information.

d-limonene

Bioaccumulative potential BCF: 1022, REACH dossier information.

Partition coefficient log Pow: 4.38 REACH dossier information.

citral

Bioaccumulative potential BCF: 89.72, REACH dossier information. The product is not bioaccumulating.

Partition coefficient log Pow: 2.76 REACH dossier information.

orange, sweet, ext.

Bioaccumulative potential BCF: ~ 1.502 - 2.597, REACH dossier information. The product is not bioaccumulating.

Partition coefficient log Pow: ~ 2.78 REACH dossier information.

trans-2-hexenal

Bioaccumulative potential No data available on bioaccumulation.

sinensal

Bioaccumulative potential BCF: ~ 1.502 - 2.597, REACH dossier information. The product is not bioaccumulating.

Partition coefficient log Pow: ~ 2.78 REACH dossier information.

12.4. Mobility in soil

Mobility The product is insoluble in water.

Ecological information on ingredients.

benzyl benzoate

Mobility The product is partly soluble in water and may spread in the aquatic environment.

Adsorption/desorption coefficient Soil - Log Koc: 3.8 @ 40°C

linalool

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Mobility The product is water-soluble and may spread in water systems.

Surface tension 8.3 mN/m @ 20°C REACH dossier information.

d-limonene

Mobility The product is partly soluble in water and may spread in the aquatic environment.

citral

Mobility The product is water-soluble and may spread in water systems.

Henry's law constant 0.000376 atm m³/mol @ 25°C REACH dossier information.

orange, sweet, ext.

Mobility The product is partly soluble in water and may spread in the aquatic environment.

trans-2-hexenal

Mobility No information available.

sinensal

Mobility The product is partly soluble in water and may spread in the aquatic environment.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

benzyl benzoate

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

linalool

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

d-limonene

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

citral

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

orange, sweet, ext.

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

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trans-2-hexenal

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

sinensal

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not known.

Ecological information on ingredients.

benzyl benzoate

Other adverse effects Not known.

linalool

Other adverse effects Not known.

d-limonene

Other adverse effects Not known.

citral

Other adverse effects Not known.

orange, sweet, ext.

Other adverse effects Not known.

trans-2-hexenal

Other adverse effects Not known.

sinensal

Other adverse effects Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. Avoid discharge to the aquatic environment. This material and its container must be disposed of in a safe way.

Disposal methods Waste packaging should be collected for reuse or recycling. Dispose of contents/container in accordance with local regulations.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3077

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UN No. (IMDG)	3077
UN No. (ICAO)	3077
UN No. (ADN)	3077

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (d-LIMONENE, BENZYL BENZOATE)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (d-LIMONENE, BENZYL BENZOATE)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (d-LIMONENE, BENZYL BENZOATE)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (d-LIMONENE, BENZYL BENZOATE)

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M7
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	2Z
Hazard Identification Number (ADR/RID)	90

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Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IMDG: International Maritime Dangerous Goods. LC ₅₀ : Lethal Concentration to 50 % of a test population. LD ₅₀ : Lethal Dose to 50% of a test population (Median Lethal Dose). EC ₅₀ : 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
Classification abbreviations and acronyms	Skin Sens. = Skin sensitisation Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Key literature references and sources for data	REACH dossier information. Source: European Chemicals Agency, http://echa.europa.eu/ Supplier's information.
Classification procedures according to Regulation (EC) 1272/2008	Skin Sens. 1 - H317, Aquatic Chronic 2 - H411: Calculation method.
Training advice	Read and follow manufacturer's recommendations.
Revision comments	New information available.
Revision date	01/09/2016
Revision	1

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Supersedes date	12/08/2014
SDS number	4570
Hazard statements in full	H226 Flammable liquid and vapour. 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. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.