



SAFETY DATA SHEET

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

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 - Tutti Fruitti

Product number 15215

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 3 - H412

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

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

Hazard statements	H317 May cause an allergic skin reaction. H412 Harmful 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	d-limonene, linalool, ethyl-2,3-epoxy-3-phenylbutyrate, hexyl cinnamic aldehyde, cinnamic aldehyde, clove leaf oil, anethole, eugenol

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

methyl salicylate 1-5% CAS number: 119-36-8 EC number: 204-317-7
Classification Acute Tox. 4 - H302
3-methylbutyl butyrate 1-5% CAS number: 106-27-4 EC number: 203-380-8
Classification Flam. Liq. 3 - H226 Aquatic Chronic 3 - H412
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
anethole <1% CAS number: 4180-23-8 EC number: 224-052-0
Classification Skin Sens. 1 - H317

JELLY BELLY 3D AIR FRESHENER - Tutti Frutti

clove leaf oil	<1%
CAS number: 8000-34-8	
Classification	
Skin Sens. 1 - H317	
Asp. Tox. 1 - H304	
ethyl-2,3-epoxy-3-phenylbutyrate	<1%
CAS number: 77-83-8 EC number: 201-061-8	
Classification	
Skin Sens. 1B - H317	
Aquatic Chronic 2 - H411	
hexyl cinnamic aldehyde	<1%
CAS number: 101-86-0 EC number: 202-983-3	
Classification	
Skin Sens. 1 - H317	
eugenol	<1%
CAS number: 97-53-0 EC number: 202-589-1	
Classification	
Eye Irrit. 2 - H319	
Skin Sens. 1B - H317	
cinnamic aldehyde	<1%
CAS number: 104-55-2 EC number: 203-213-9	
Classification	
Acute Tox. 4 - H312	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
linalool	<1%
CAS number: 78-70-6 EC number: 201-134-4	
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1B - H317	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

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

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

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.

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

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	Pink.
Odour	Fruity.
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.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

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) 19,711.11

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.

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

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.

methyl salicylate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 887.0

Species Rat

Notes (oral LD₅₀) REACH dossier information. Harmful if swallowed.

ATE oral (mg/kg) 887.0

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: Very slight oedema - barely perceptible (1). REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: 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.

Carcinogenicity

Carcinogenicity NOAEL 500 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Three-generation study - NOAEL 250 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 50 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

Aspiration hazard

Aspiration hazard Not relevant.

3-methylbutyl butyrate

Toxicological effects No information available.

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.

anethole

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,070.0

Species Rat

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

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

ATE oral (mg/kg) 3,070.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 4,901.0

Species Rabbit

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

ATE dermal (mg/kg) 4,901.0

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). REACH dossier information. Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Sensitising. REACH dossier information. May cause an allergic skin reaction.

Germ cell mutagenicity

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

Reproductive toxicity

Reproductive toxicity - fertility One-generation study - Dose level: 1500 mg/kg/day, Oral, Rat F1 REACH dossier information. Based on available data the classification criteria are not met.

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 300 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

clove leaf oil

Toxicological effects No information available.

ethyl-2,3-epoxy-3-phenylbutyrate

Acute toxicity - dermal

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

Skin corrosion/irritation

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

Human skin model test	Not irritating. REACH dossier information.
<u>Skin sensitisation</u>	
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Sensitising. REACH dossier information. May cause an allergic skin reaction.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	DNA damage and/or repair: Negative. REACH dossier information. Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	No evidence of carcinogenicity in animal studies. REACH dossier information.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Screening - NOAEL 1000 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.
Reproductive toxicity - development	Maternal toxicity: - NOAEL: 1000 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, Rat REACH dossier information. Based on available data the classification criteria are not met.

hexyl cinnamic aldehyde

Toxicological effects No information available.

eugenol

Acute toxicity - oral

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

Species Rat

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

ATE oral (mg/kg) 2,001.0

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

Serious eye damage/irritation

Serious eye damage/irritation Irritating to eyes.

Skin sensitisation

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

Germ cell mutagenicity

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

Genotoxicity - in vitro Chromosome aberration: 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.

Carcinogenicity

Carcinogenicity No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOAEL 700 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 450 mg/kg/day, Oral, Mouse REACH dossier information. Based on available data the classification criteria are not met.

cinnamic aldehyde

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,220.0

Species Rat

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

ATE oral (mg/kg) 2,220.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 1,260.0

Species Rabbit

Notes (dermal LD₅₀) REACH dossier information. Harmful in contact with skin.

ATE dermal (mg/kg) 1,260.0

Skin corrosion/irritation

Human skin model test Patch test 0.02%, 0.1%, 0.8% 6 weeks Highly irritating. REACH dossier information.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 mL, 24 hours, Rabbit Highly irritating. Fully reversible within 14 days. REACH dossier information.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Sensitising. REACH dossier information.

linalool

Acute toxicity - oral

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

Species Rat

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

Notes (oral LD₅₀)	REACH dossier information. Based on available data the classification criteria are not met.
ATE oral (mg/kg)	2,790.0
<u>Acute toxicity - dermal</u>	
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
<u>Skin corrosion/irritation</u>	
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.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Dose: 0.1 ml, 1 second, Rabbit REACH dossier information. Causes serious eye irritation.
<u>Skin sensitisation</u>	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information. May cause an allergic skin reaction.
<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>Reproductive toxicity</u>	
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.
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.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEL 160 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

methyl salicylate

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

Acute toxicity - fish LC₅₀, 96 hours: 100 mg/l, Freshwater fish
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 870 mg/l, Daphnia magna
REACH dossier information.

3-methylbutyl butyrate

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

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

anethole

Acute toxicity - fish EC₅₀, 96 hours: ~ 7 mg/l, Brachydanio rerio (Zebra Fish)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: ~ 6.82 mg/l, Daphnia magna
REACH dossier information.

clove leaf oil

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

ethyl-2,3-epoxy-3-phenylbutyrate

Acute toxicity - fish LC₅₀, 96 hours: 4.2 mg/l, Onchorhynchus mykiss (Rainbow trout)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 52 mg/l, Daphnia magna
REACH dossier information.

Acute toxicity - aquatic plants EC₅₀, 72 hours: 36 mg/l, Pseudokirchneriella subcapitata
REACH dossier information.

hexyl cinnamic aldehyde

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

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

eugenol

Acute toxicity - fish LC₅₀, 96 hours: 13 mg/l, Freshwater fish
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.13 mg/l, Daphnia magna
REACH dossier information.
Estimated value.

Acute toxicity - aquatic plants EC₅₀, 72 hours: 36 mg/l, Desmodosmus subspicatus

linalool

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.

12.2. Persistence and degradability

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

Ecological information on ingredients.

methyl salicylate

Phototransformation Water - DT₅₀ : 11.6 hours
REACH dossier information.

Biodegradation Water - Degradation 98.4: 28 days
REACH dossier information.
The substance is readily biodegradable.

3-methylbutyl butyrate

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

d-limonene

Phototransformation Water - DT₅₀ : 0.365 hours
REACH dossier information.

Biodegradation The substance is readily biodegradable.

anethole

Biodegradation Water - Degradation 79: 28 days
REACH dossier information.
The substance is readily biodegradable.

clove leaf oil

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

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

ethyl-2,3-epoxy-3-phenylbutyrate

Stability (hydrolysis) pH9 - Half-life : 17.3 hours @ 25°C
REACH dossier information.

Biodegradation Water - Degradation 53: 28 days
REACH dossier information.
The product is not readily biodegradable.

hexyl cinnamic aldehyde

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

eugenol

Biodegradation Water - Degradation 82: 28 days
REACH dossier information.
The substance is readily biodegradable.

linalool

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

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

Ecological information on ingredients.

methyl salicylate

Bioaccumulative potential No data available on bioaccumulation.

3-methylbutyl butyrate

Bioaccumulative potential No data available on bioaccumulation.

d-limonene

Bioaccumulative potential BCF: 1022, REACH dossier information.

Partition coefficient log Pow: 4.38 REACH dossier information.

anethole

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Pow: ~ 3.3884 REACH dossier information.

clove leaf oil

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

Bioaccumulative potential No data available on bioaccumulation.

ethyl-2,3-epoxy-3-phenylbutyrate

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: 2.8 REACH dossier information.

hexyl cinnamic aldehyde

Bioaccumulative potential No data available on bioaccumulation.

eugenol

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient log Pow: 1.83 REACH dossier information.

linalool

Partition coefficient log Pow: 2.9 REACH dossier information.

12.4. Mobility in soil

Mobility The product is insoluble in water.

Ecological information on ingredients.

methyl salicylate

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

Henry's law constant 4.76 Pa m³/mol @ 25°C REACH dossier information.

3-methylbutyl butyrate

Mobility No information available.

d-limonene

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

anethole

Mobility Slightly soluble in water.

clove leaf oil

Mobility No information available.

ethyl-2,3-epoxy-3-phenylbutyrate

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

Surface tension 58.9 mN/m @ 19.6°C REACH dossier information.

hexyl cinnamic aldehyde

Mobility No information available.

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

eugenol

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

linalool

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

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

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.

methyl salicylate

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

3-methylbutyl butyrate

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.

anethole

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

clove leaf oil

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

ethyl-2,3-epoxy-3-phenylbutyrate

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

hexyl cinnamic aldehyde

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

eugenol

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

linalool

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

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.

methyl salicylate

Other adverse effects Not known.

3-methylbutyl butyrate

Other adverse effects Not known.

d-limonene

Other adverse effects Not known.

anethole

Other adverse effects None known.

clove leaf oil

Other adverse effects Not known.

ethyl-2,3-epoxy-3-phenylbutyrate

Other adverse effects Not known.

hexyl cinnamic aldehyde

Other adverse effects Not known.

eugenol

Other adverse effects Not known.

linalool

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

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

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

JELLY BELLY 3D AIR FRESHENER - Tutti Fruitti

Abbreviations and acronyms used in the safety data sheet	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
Classification abbreviations and acronyms	<p>Skin Sens. = Skin sensitisation</p> <p>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p>
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 3 - H412: Calculation method.
Training advice	Read and follow manufacturer's recommendations.
Revision comments	New information available.
Revision date	01/09/2016
Revision	1
Supersedes date	12/08/2014
SDS number	4550
Hazard statements in full	<p>H226 Flammable liquid and vapour.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H312 Harmful in contact with skin.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>

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