Acana (Original) Hanging Moth Killer & Freshener

SAFETY DATA SHEET

Acana (Original) Hanging Moth Killer & Freshener

Prepared in accordance with Annex II of REACH Regulation (EC) 1907/2006 (as amended by Commission Regulation (EU) 2020/878) and Regulation (EC) 1272/2008

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

1.1. Product identifier

Product name	Acana (Original) Hanging Moth Killer & Freshener
Product number	5060214390460,5060214390682

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

Identified uses	Moth repellent.
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier	Acana Ltd. Chiltern House, 25-27 Castle Gate Nottingham, NG1 7AR, UK T: +44 (0) 1158 249 707 F: +44 (0) 1158 249 717 info@acana.co.uk

1.4. Emergency telephone number

Emergency telephone	+44 (0) 1158 249 707 (08:00 - 16:00h GMT Monday - Friday) 111 (24 hours, 7 days a week)
Language	English

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315; Skin Sens. 1 - H317
Environmental hazards	Aquatic Acute 1 - H400; Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram

Signal word Warning

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Hazard statements	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H400 Very toxic to aquatic life. 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 water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P391 Collect spillage. P501 Dispose of contents/container in accordance with national regulations.
Contains	Coumarin, Lavandula Hybrida Oil
Supplementary precautionary statements	P261 Avoid breathing vapour/spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse
Biocide Labelling	Concentration of active substance: Transfluthrin ~8.0%

2.1. Other hazards

PBT assessment:	This product does not contain any substance that meets the criteria for vPvB and PBT according to Regulation (EC) No 1907/2005, Annex XIII.
Endocrine disrupting properties:	This product does not contain any known or suspected endocrine disruptors – it does not contain any substances that are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties and does not contain any substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-indenyl acetate — 10-<25%

CAS number: 54830-99-8 EC number: 259-367-2

Classification
Aquatic Chronic 3 - H412

4-tert-Butylcyclohexyl acetate — 10-<25%

CAS number: 32210-23-4 EC number: 250-954-9

Classification
Aquatic Chronic 2 - H411

Exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acetate — 10-<25%

CAS number: 125-12-2 EC number: 204-727-6

Classification
Skin Irrit. 2 – H315
Aquatic Chronic 2 - H411

Dipropylene glycol monomethyl ether — 10-<25%

REACH registration number: 01-2119450011-60-XXXX

CAS number: 34590-94-8 EC number: 252-104-2

Substance with National workplace exposure limits

Classification
Not classified

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Transfluthurin			5-<10%
CAS number: 118712-89-3	EC number: 405-060-5		
M factor (Acute) = 1000	M factor (Chronic) = 1		
Classification Skin Irrit. 2 – H315 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410			

Terpineol, acetate			5-<10%
CAS number: 8007-35-0	EC number: 232-357-5		
Classification Aquatic Chronic 2 - H411			

3,5,5-Trimethylhexyl acetate			5-<10%
CAS number: 58430-94-7	EC number: 261-245-9	REACH registration number: 01-2119972325-34-XXXX	
Classification Skin Irrit. 2 - H315 Aquatic Chronic 2 - H411			

[3R-(3α,3aβ,7β,8aα)]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene			2.5-<5%
CAS number: 469-61-4	EC number: 207-418-4		
M factor (Acute) = 1	M factor (Chronic) = 1		
Classification Asp. Tox. 1 - H304 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410			

3R-(3α,3aβ,6α,7β,8aα)]-Octahydro-3,6,8,8-tetramethyl-1H- 3a,7-methanoazulen-6-ol			2.5-<5%
CAS number: 77-53-2	EC number: 201-035-6		
Classification Aquatic Chronic 2 - H411			

Lavandula Hybrida Oil			2.5-<5%
CAS number: 8022-15-9	EC number: 294-470-6		
Classification Skin Sens. 1 - H317			

5-Methylheptan-3-one			2.5-<5%
CAS number: 541-85-5	EC number: 208-793-7		
Classification Flam. Liq. 3 - H226 Eye Irrit. 2 - H319 STOT SE 3 - H335			

Coumarin			2.5-<5%
CAS number: 91-64-5	EC number: 202-086-7		
Classification Acute Tox. 4 - H302 Skin Sens. 1 - H317 STOT RE 2 - H373			

Toluene			<0.025%
CAS number: 108-88-3	EC number: 203-625-9		
Classification Flam. Liq. 2 - H225 Repr. 2 - H361d			

Asp. Tox. 1 - H304
STOT RE 2 - H373
Skin Irrit. 2 - H315
STOT SE 3 - H336

The Full Text for all Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.
Skin contact	It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Rinse with water. Get medical attention if any discomfort continues.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue. Refer to Section 8 for more information.

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.
Inhalation	No specific symptoms known.
Ingestion	May cause discomfort if swallowed.
Skin contact	May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.
Eye contact	No specific symptoms known. May be slightly irritating to eyes.

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

Notes for the doctor	Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.

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	Containers can burst violently or explode when heated, due to excessive pressure build-up.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. 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.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

6.1.1 Non-emergency personnel: Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Avoid contact with skin and eyes.

6.1.2 Emergency responders: Wear protective clothing as described in Section 8 of this safety data sheet. Environmental precautions

6.2 Environmental precautions: Avoid discharge into drains or watercourses or onto the ground. 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. If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

Dangerous for the environment. Do not empty into drains. 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: Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene: Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions: Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Store in tightly closed, original container in a dry, cool and well-ventilated place. Keep containers upright. Protect containers from damage.

Storage class: Miscellaneous hazardous material storage.

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

Occupational exposure limits (UK)

Dipropylene glycol monomethyl ether:

Long-term exposure limit (8-hour TWA): WEL 50 ppm; 308 mg/m³

Sk

Transfluthrin (ISO):

Long-term exposure limit (8-hour TWA): 4.7 mg/m³

5-Methylheptan-3-one:

Long-term exposure limit (8-hour TWA): WEL 10 ppm; 53 mg/m³

Short-term exposure limit (15-minute average value): WEL 20 ppm; 107 mg/m³

Toluene:

Short-term exposure limit (15-minute average value): WEL 100 ppm; 384 mg/m³

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Long-term exposure limit (8-hour TWA): WEL 50 ppm; 191 mg/m³
Sk

Sk = Can be absorbed through the skin.
WEL = Workplace Exposure Limit

Monitoring methods: Unknown

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate ventilation.
Eye/face protection	Avoid contact with eyes. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand protection	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. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	May cause skin sensitisation or allergic reactions in sensitive individuals. Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Wash contaminated clothing before reuse.
Respiratory protection	No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure controls	Keep container tightly sealed when not in use. Avoid release to the environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid. For the impregnation of inert support (cellulose).
Colour	Not available.
Odour	Lavender.
Odour threshold	Not determined.
pH	Not determined.
Melting point	Not determined.
Boiling point	Not determined.
Flash point	Not determined.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability	Not determined.
Upper/lower explosivity limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Particle characteristics	Not applicable (mixture is liquid).

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Relative density	Not determined.
Bulk density	Not determined.
Solubility	Not determined.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined.
Viscosity	Not determined.

9.2. Other information

Other information	No information required.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stability: Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid: There are no known conditions that are likely to result in a hazardous situation.

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

Full mixture

Acute toxicity - oral

Notes (oral LD_{50})	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	19,680

Acute toxicity - dermal

Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data	Irritating.

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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 skin sensitisation or allergic reactions in sensitive individuals.

Germ cell mutagenicity

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

Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable as to its carcinogenicity to humans.

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.

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	Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard	Based on available data the classification criteria are not met.
Likely routes of exposure	Ingestion Inhalation. Skin and/or eye contact
Symptoms related to the physical, chemical, and toxicological properties of the mixture	None known
Delayed and immediate effects	None known
Interactions	None known

Toxicological information on ingredients.

exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acetate

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} >10000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} 20000 mg/kg, Dermal, Rabbit REACH dossier information. Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin irritation	Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: No oedema (0). REACH dossier information. Irritating.

Skin sensitisation

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

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Reproductive toxicity	Maternal toxicity:, Embryotoxicity:, Teratogenicity: - NOAEL: 1000 mg/kg/day, Oral, Rat No evidence of reproductive toxicity in animal studies.
Reproductive toxicity - development	

Transfluthrin (ISO)

Acute toxicity - oral	
Notes (oral LD_{50})	> 5000 mg/kg, Rat, Raw material suppliers' information. Based on available data the classification criteria are not met.
Acute toxicity - dermal	
Notes (dermal LD_{50})	> 5000 mg/kg, Rat, Raw material suppliers' information. Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Notes (inhalation LC_{50})	LD_{50} >0.513 mg/l, (aerosol), Inhalation, Rat
Skin corrosion/irritation	
Skin irritation	Irritating. Animal data.
Skin sensitisation	
Skin sensitisation	Buehler test - Guinea pig: Not sensitising. Raw material suppliers' information.

[3R-(3α,3aβ,7β,8aα)]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Aspiration hazard	
Aspiration hazard	Aspiration hazard if swallowed.

Coumarin

Acute toxicity - oral	
Notes (oral LD_{50})	Harmful if swallowed.
ATE oral (mg/kg)	500.0
Skin corrosion/irritation	
Skin irritation	Primary dermal irritation index: 1.15 REACH dossier information. Based on available data the classification criteria are not met.
Skin sensitisation	
Skin sensitisation	Sensitising.
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 >100 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	STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.

11.2 Other information

Medical considerations	Skin disorders and allergies.
Endocrine disrupting properties	This product does not contain any known or suspected endocrine disruptors – it does not contain any substances that are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties and does not contain any substances identified as having endocrine disrupting properties for human health in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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SECTION 12: Ecological Information

12.1. Toxicity

Toxicity of the mixture: Aquatic Acute 1 - H400 Very toxic to aquatic life.
Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acetate

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

Acute toxicity - fish	LC_{50}, 96 hours: 10 mg/l, *Brachydanio rerio* (Zebra Fish)
Acute toxicity - aquatic invertebrates	LC_{50}, 48 hours: 3.75 mg/l, *Daphnia magna* Estimated value.
Acute toxicity - aquatic plants	EC_{50}, 96 hours: 1.3 mg/l, Algae Estimated value.

Transfluthrin (ISO)

Toxicity	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.
Acute aquatic toxicity	
$LE(C)_{50}$	0.0001 < L(E)C50 ≤ 0.001
M factor (Acute)	1000
Acute toxicity - fish	LC_{50}, 96 hours: 0.0007 mg/l, *Onchorhynchus mykiss* (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 0.0017 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC_{20}, 72 hours: >0.1 mg/l, *Desmodesmus subspicatus*
Chronic aquatic toxicity	
NOEC	0.01 < NOEC ≤ 0.1
Degradability	Non-rapidly degradable
M factor (Chronic)	1

[3R-(3α,3aβ,7β,8aα)]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Toxicity	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.
Acute aquatic toxicity	
$LE(C)_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Chronic aquatic toxicity	
M factor (Chronic)	1

Coumarin

Acute toxicity - fish	LC_{50}, 96 hours: 1.324 mg/l, QSAR model
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 8.012 mg/l, *Daphnia magna*, QSAR model
Acute toxicity - aquatic plants	EC_{50}, 96 hours: 1.452 mg/l, QSAR model
Chronic toxicity - fish early life stage	NOEC, 60 days: 0.119 mg/l, Fish, QSAR model
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.448 mg/l, *Daphnia magna*, QSAR model

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[3R-(3α,3aβ,6α,7β,8aα)]-Octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-6-ol

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

Acute aquatic toxicity

Acute toxicity – aquatic invertebrates	LC_{50}, 48 hours: 1.225 mg/l, estimated value
Acute toxicity – aquatic algae	LC_{50}, 96 hours: 1.596 mg/l, estimated value

Chronic aquatic toxicity

No data available

3,5,5-Trimethylhexyl acetate

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

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 7.7 mg/l, fathead minnow
Acute toxicity – aquatic invertebrates	LC_{50}, 48 hours: 5.4 mg/l, daphnia magna
Acute toxicity – aquatic algae	ErC_{10}, 72 hours: 0.65 mg/l, green algae

Chronic aquatic toxicity

No data available

Terpineol, acetate

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

Acute aquatic toxicity

No data available

Chronic aquatic toxicity

No data available

12.2. Persistence and degradability

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

Ecological information on ingredients

exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acetate

Persistence and degradability	The substance is readily biodegradable.
Phototransformation	DT_{50}: 16.6 hours – Estimated value
Stability (hydrolysis)	pH7 – Dissipation Half-life: 2.3 years @ 25°C - Estimated value
Biodegradation	Water - Degradation 76%: 28 days

Transfluthrin (ISO)

Persistence and degradability	The substance is not readily biodegradable.

3R-(3α,3aβ,7β,8aα)]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Persistence and degradability	The substance is readily biodegradable.

Coumarin

Persistence and degradability	The substance is readily biodegradable
Biodegradation	Water - Degradation 100%: 28 days

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3R-(3α,3aβ,6α,7β,8aα)]-Octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-6-ol

Persistence and degradability	The degradability of the substance is not known.
Biodegradation	Water - Degradation 91.4%: 28 days

3,5,5-Trimethylhexyl acetate

Stability (hydrolysis)	pH7 – hydrolysis half-life: 20.6 days@ 25°C
Persistence and degradability	The substance is readily biodegradable.

Terpineol, acetate

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

12.3 Bioaccumulative potential

Bioaccumulative potential	No data available for the mixture on bioaccumulation
Partition coefficient	Not determined for the mixture

Ecological information on ingredients.
exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acetate

Bioaccumulative potential	BCF: 319, Fish, estimated value. The substance is not bioaccumulating.
Partition coefficient	log Pow: 3.86, estimated value.

Transfluthrin (ISO)

Bioaccumulative potential	The substance is not bioaccumulating. BCF: 1783, Fish

[3R-(3α,3aβ,7β,8aα)]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Bioaccumulative potential	No data available on bioaccumulation.

Coumarin

Bioaccumulative potential	No data available on bioaccumulation
Partition coefficient	log Pow: 1.39

[3R-(3α,3aβ,6α,7β,8aα)]-Octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-6-ol

Bioaccumulative potential	No data available on bioaccumulation.

3,5,5-Trimethylhexyl acetate

Bioaccumulative potential	BCF: 2000, QSAR, Estimated value. The product is not bioaccumulating.
Partition coefficient	log Pow: 4.6

Terpineol, acetate

Bioaccumulative potential	No data available on bioaccumulation.

12.4 Mobility in soil

Mobility	No data on the mixture available.

Ecological information on ingredients.
exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acetate

Mobility	The substance has poor water-solubility
Adsorption/desorption coefficient	Water - log Koc: 2.627 @ 25°C Estimated value.
Surface tension	30.95 mN/m @ 25°C

Transfluthrin (ISO)

Mobility	The substance has poor water-solubility.
Adsorption/desorption coefficient	Water - log Koc: 4.7 @ 20°

[3R-(3α,3aβ,7β,8aα)]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Mobility	No data available

Coumarin

Mobility	The substance is soluble in water

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3R-(3α,3aβ,6α,7β,8aα)]-Octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-6-ol

Mobility	No data available

3,5,5-Trimethylhexyl acetate

Mobility	The substance is slightly mobile in soil
Adsorption/desorption coefficient	Water - log Koc: 3.751 @ 20°C Estimated value

Terpineol, acetate

Mobility	No data available

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.
exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acetate

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

Transfluthrin (ISO)Results of PBT and vPvB assessment

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

3R-(3α,3aβ,7β,8aα)]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Results of PBT and vPvB assessment	No data available

Coumarin

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

[3R-(3α,3aβ,6α,7β,8aα)]-Octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-6-ol

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

3,5,5-Trimethylhexyl acetate

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

Terpineol, acetate

Results of PBT and vPvB assessment	No data available

12.6. Other adverse effects

Other adverse effects	None known.
Endocrine disrupting properties	This mixture does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

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. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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SECTION 14: Transport information

General: For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

14.1. UN number

UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN No. (ADN)	3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Transfluthrin (ISO), 4-tert-Butylcyclohexyl acetate)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Transfluthrin (ISO), 4-tert-Butylcyclohexyl acetate)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Transfluthrin (ISO), 4-tert-Butylcyclohexyl acetate)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Transfluthrin (ISO), 4-tert-Butylcyclohexyl acetate)

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
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
ADN packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number	90 (ADR/RID)
Tunnel restriction code	(E)

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14.7. Transport in bulk according to Annex II of MARPOL73/78 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 Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). 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 453/2010 of 20 May 2010. 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 for this mixture by the supplier.

SECTION 16: Other information

16.1 Indication of changes	Release date: 09 January 2015 Revision date: 26 June 2024 Version: 3 Revised Sections: 1, 2, 3, 8, 9, 11, 12, 15, and 16 Supersedes: Version 2, 8 October 2015 SDS Number:2219
16.2 Abbreviations and acronyms:	ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road BCF – Bioconcentration Factor C(E)L50m – EC50/LC50 CAS—Chemical Abstract Service CL - Concentration Limits CLP - Regulation on classification, labeling and packaging of substances and mixtures (EC) No. 1272/2008 EC - European Commission EC50 - Half Maximum Effect Concentration (concentration halfway between the maximum and baseline of an effect) ECHA - European Chemicals Agency IATA - International Air Transport Association IBC - Intermediate Bulk Container IMDG – Carriage of Dangerous Goods by Sea LC50 - Median lethal concentration (concentration causing 50% mortality of the test population)

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16.2 Abbreviations and acronyms (continued):	LD50 - Median lethal dose (dose causing 50% mortality of the test population) MARPOL - International Convention for the Prevention of Pollution from Ships NOAEL – No Observed Adverse Effect Level NOEL - no observed effect dose NOELR – Exposure Rate with No Observed Effect OEL – Occupational Exposure Limit PBT - Persistent, Biodegradable, Toxic REACH - Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals - (EC) No. 1907/2006 STOT - Specific Target Organ Toxicity TWA – Time Weighted Average
16.3 Key literature references and sources for data:	GESTIS International Limit Values (IFA) http://limitvalue.ifa.dguv.de/ exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acetate disseminated registration dossier: https://chem.echa.europa.eu/100.004.298/overview Coumarin disseminated registration dossier: https://chem.echa.europa.eu/100.001.897/overview [3R-(3α,3aβ,6α,7β,8aα)]-Octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-6-ol disseminated registration dossier: https://chem.echa.europa.eu/100.000.942/overview 3,5,5-trimethylhexyl acetate disseminated registration dossier: https://chem.echa.europa.eu/100.055.659/overview
16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:	Skin Irrit. 2 - H315: Test data Skin Sens. 1 - H317: Calculation method. Aquatic Acute 1 - H400; Aquatic Chronic 2 - H411: Calculation method
16.5 Relevant H-statements and P-statements (number and full text)	H225 Highly flammable liquid and vapour. 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. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H361d Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. 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. P102 Keep out of reach of children. P261 Avoid breathing vapour/spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P391 Collect spillage. P501 Dispose of contents/container in accordance with national regulations. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.
16.6 Training advice	Read and follow manufacturer's recommendations.
16.7 Further information	For more information, please contact Acana Ltd

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