



## SAFETY DATA SHEET

### Acana (Original) Hanging Moth Killer & Freshener

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

#### 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, 325-27  
 Castle Gate Nottingham,  
 NG1 7AR,  
 UK  
 T: +44 (0) 1158 249 707  
 F: +44 (0) 1158 249 717  
 swa@acana.co.uk

##### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 1158 249 707  
 (08:00 - 1600h Monday - Friday)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

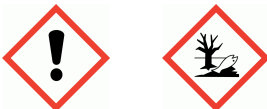
###### Classification

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

**Classification (67/548/EEC or 1999/45/EC)** Xi; R38. N; R50, R51/53. R43

##### 2.2. Label elements

###### Pictogram



###### Signal word

Warning

## Acana (Original) Hanging Moth Killer & Freshener

|   |   |
|---|---|
| <b>Hazard statements</b>                      | H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H400 Very toxic to aquatic life.<br>H411 Toxic to aquatic life with long lasting effects.  |
| <b>Precautionary statements</b>               | P102 Keep out of reach of children.<br>P302+P352 IF ON SKIN: Wash with plenty of water.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.<br>P391 Collect spillage.<br>P501 Dispose of contents/container in accordance with national regulations.  |
| <b>Contains</b>                               | Coumarin, Lavandula Hybrida Oil   |
| <b>Supplementary precautionary statements</b> | P261 Avoid breathing vapour/spray.<br>P264 Wash contaminated skin thoroughly after handling.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.<br>P321 Specific treatment (see medical advice on this label).<br>P332+P313 If skin irritation occurs: Get medical advice/attention.<br>P362+P364 Take off contaminated clothing and wash it before reuse. |
| <b>Biocide Labelling</b>                      | Concentration of active substance:, Transfluthrin ~7.5%   |

### 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

|   |  |
|---|--|
| <b>3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-indenyl acetate</b> | <b>10 - &lt;25%</b>                              |
| CAS number: 54830-99-8  | EC number: 259-367-2                             |
| <b>Classification</b>   | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Aquatic Chronic 3 - H412                                      | R52/53   |
| <b>4-tert-Butylcyclohexyl acetate</b>                         | <b>10 - &lt;25%</b>                              |
| CAS number: 32210-23-4  | EC number: 250-954-9                             |
| <b>Classification</b>   | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Aquatic Chronic 2 - H411                                      | N; R51/53  |
| <b>exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acetate</b>     | <b>10 - &lt;25%</b>                              |
| CAS number: 125-12-2  | EC number: 204-727-6                             |
| <b>Classification</b>   | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Skin Irrit. 2 - H315<br>Aquatic Chronic 2 - H411              | Xi; R38. N; R51/53                               |

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|   |  |
|---|--|
| <b>Dipropylene glycol monomethyl ether</b>  | <b>10 - &lt;25%</b>  |
| CAS number: 34590-94-8  | EC number: 252-104-2   |
|   | REACH registration number: 01-2119450011-60-XXXX                       |
| Substance with National workplace exposure limits.  |  |
| <b>Classification</b><br>Not Classified   | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>---                |
| <b>Transfluthrin (ISO)</b>  | <b>5 - &lt;10%</b>   |
| CAS number: 118712-89-3   | EC number: 405-060-5   |
| M factor (Acute) = 1000   | M factor (Chronic) = 1   |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410   | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>Xi; R38. N; R50/53 |
| <b>Terpineol, acetate</b>   | <b>5 - &lt;10%</b>   |
| CAS number: 8007-35-0   | EC number: 232-357-5   |
| <b>Classification</b><br>Aquatic Chronic 2 - H411   | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>N; R51/53          |
| <b>3,5,5-Trimethylhexyl acetate</b>   | <b>5 - &lt;10%</b>   |
| CAS number: 58430-94-7  | EC number: 261-245-9   |
|   | REACH registration number: 01-2119972325-34-XXXX                       |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Aquatic Chronic 2 - H411   | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>Xi; R38. N; R51/53 |
| <b>[3R-(3<math>\alpha</math>,3<math>\beta</math>,7<math>\beta</math>,8<math>\alpha</math>)]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene</b>             | <b>1 - &lt;2.5%</b>  |
| CAS number: 469-61-4  | EC number: 207-418-4   |
| M factor (Acute) = 1  | M factor (Chronic) = 1   |
| <b>Classification</b><br>Asp. Tox. 1 - H304<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410   | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>Xn; R65. N; R50/53 |
| <b>[3R-(3<math>\alpha</math>,3<math>\beta</math>,6<math>\alpha</math>,7<math>\beta</math>,8<math>\alpha</math>)]-Octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-6-ol</b> | <b>1 - &lt;2.5%</b>  |
| CAS number: 77-53-2   | EC number: 201-035-6   |
| <b>Classification</b><br>Aquatic Chronic 2 - H411   | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>N; R51/53          |

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|   |  |
|---|--|
| <b>Lavandula Hybrida Oil</b>  | <b>1 - &lt;2.5%</b>  |
| CAS number: 8022-15-9   | EC number: 294-470-6   |
| <b>Classification</b><br>Skin Sens. 1 - H317  | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>R43                        |
| <b>5-Methylheptan-3-one</b>   | <b>1 - &lt;2.5%</b>  |
| CAS number: 541-85-5  | EC number: 208-793-7   |
| <b>Classification</b><br>Flam. Liq. 3 - H226<br>Eye Irrit. 2 - H319<br>STOT SE 3 - H335   | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>Xi; R36/37. R10            |
| <b>Coumarin</b>   | <b>1 - &lt;2.5%</b>  |
| CAS number: 91-64-5   | EC number: 202-086-7   |
| <b>Classification</b><br>Acute Tox. 4 - H302<br>Skin Sens. 1 - H317<br>STOT RE 2 - H373   | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>Xn; R22, R48/20/21/22. R43 |
| <b>Toluene</b>  | <b>&lt;0.025%</b>  |
| CAS number: 108-88-3  | EC number: 203-625-9   |
| <b>Classification</b><br>Flam. Liq. 2 - H225<br>Repr. 2 - H361d<br>Asp. Tox. 1 - H304<br>STOT RE 2 - H373<br>Skin Irrit. 2 - H315<br>STOT SE 3 - H336 |  |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                            |   |
|----------------------------|---|
| <b>General information</b> | Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.  |
| <b>Inhalation</b>          | 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.  |
| <b>Ingestion</b>           | Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.   |
| <b>Skin contact</b>        | 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. |

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|  |   |
|--|---|
| <b>Eye contact</b>   | Rinse with water. Get medical attention if any discomfort continues.  |
| <b>Protection of first aiders</b>  | First aid personnel should wear appropriate protective equipment during any rescue.                         |
| <b><u>4.2. Most important symptoms and effects, both acute and delayed</u></b> |   |
| <b>General information</b>   | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| <b>Inhalation</b>  | No specific symptoms known.   |
| <b>Ingestion</b>   | May cause discomfort if swallowed.  |
| <b>Skin contact</b>  | May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.   |
| <b>Eye contact</b>   | No specific symptoms known. May be slightly irritating to eyes.   |

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

|                             |  |
|-----------------------------|--|
| <b>Notes for the doctor</b> | Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals. |
|-----------------------------|--|

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | 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. |
| <b>Unsuitable extinguishing media</b> | Do not use water jet as an extinguisher, as this will spread the fire.   |

### **5.2. Special hazards arising from the substance or mixture**

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

### **5.3. Advice for firefighters**

|  |   |
|--|---|
| <b>Protective actions during firefighting</b>        | 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. |
| <b>Special protective equipment for firefighters</b> | 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**

|                             |   |
|-----------------------------|---|
| <b>Personal precautions</b> | 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. |
|-----------------------------|---|

### **6.2. Environmental precautions**

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | 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**

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### 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

##### Dipropylene glycol monomethyl ether

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m<sup>3</sup>  
Sk

##### Transfluthrin (ISO)

Long-term exposure limit (8-hour TWA): 4.7 mg/m<sup>3</sup>

##### 5-Methylheptan-3-one

Long-term exposure limit (8-hour TWA): WEL 10 ppm 53 mg/m<sup>3</sup>  
Short-term exposure limit (15-minute): WEL 20 ppm 107 mg/m<sup>3</sup>

##### Toluene

Sk  
Short-term exposure limit (15-minute): WEL 100 ppm 384 mg/m<sup>3</sup>  
Long-term exposure limit (8-hour TWA): WEL 50 ppm 191 mg/m<sup>3</sup>

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

### 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

|  |  |
|--|--|
| Appearance                                   | Liquid. For the impregnation of inert support (cellulose). |
| Colour                                       | Not available.   |
| Odour  | Lavender.  |
| Odour threshold                              | Not determined.  |
| pH   | Not determined.  |
| Melting point                                | Not determined.  |
| Initial boiling point and range              | Not determined.  |
| Flash point                                  | Not determined.  |
| Evaporation rate                             | Not determined.  |
| Evaporation factor                           | Not determined.  |
| Upper/lower flammability or explosive limits | Not determined.  |
| Vapour pressure                              | Not determined.  |
| Vapour density                               | Not determined.  |

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|                                  |   |
|----------------------------------|---|
| <b>Relative density</b>          | Not determined.   |
| <b>Bulk density</b>              | Not determined.   |
| <b>Solubility(ies)</b>           | Not determined.   |
| <b>Partition coefficient</b>     | Not determined.   |
| <b>Auto-ignition temperature</b> | Not determined.   |
| <b>Decomposition Temperature</b> | Not determined.   |
| <b>Viscosity</b>                 | Not determined.   |
| <b>Explosive properties</b>      | Not considered to be explosive.                             |
| <b>Oxidising properties</b>      | Does not meet the criteria for classification as oxidising. |

### 9.2. Other information

**Other information** No information required.

## 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

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 20,689.66

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Skin corrosion/irritation



## Acana (Original) Hanging Moth Killer & Freshener

|  |  |
|--|--|
| <b>Animal data</b>   | Irritating.  |
| <b><u>Serious eye damage/irritation</u></b>                      |  |
| <b>Serious eye damage/irritation</b>                             | Based on available data the classification criteria are not met.   |
| <b><u>Respiratory sensitisation</u></b>                          |  |
| <b>Respiratory sensitisation</b>                                 | Based on available data the classification criteria are not met.   |
| <b><u>Skin sensitisation</u></b>                                 |  |
| <b>Skin sensitisation</b>  | May cause skin sensitisation or allergic reactions in sensitive individuals.   |
| <b><u>Germ cell mutagenicity</u></b>                             |  |
| <b>Genotoxicity - in vitro</b>                                   | Based on available data the classification criteria are not met.   |
| <b><u>Carcinogenicity</u></b>                                    |  |
| <b>Carcinogenicity</b>   | Based on available data the classification criteria are not met.   |
| <b>IARC carcinogenicity</b>                                      | Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable as to its carcinogenicity to humans. |
| <b><u>Reproductive toxicity</u></b>                              |  |
| <b>Reproductive toxicity - fertility</b>                         | Based on available data the classification criteria are not met.   |
| <b>Reproductive toxicity - development</b>                       | Based on available data the classification criteria are not met.   |
| <b><u>Specific target organ toxicity - single exposure</u></b>   |  |
| <b>STOT - single exposure</b>                                    | Not classified as a specific target organ toxicant after a single exposure.  |
| <b><u>Specific target organ toxicity - repeated exposure</u></b> |  |
| <b>STOT - repeated exposure</b>                                  | Not classified as a specific target organ toxicant after repeated exposure.  |
| <b><u>Aspiration hazard</u></b>                                  |  |
| <b>Aspiration hazard</b>   | Based on available data the classification criteria are not met.   |
| <b><u>General information</u></b>                                |  |
| <b>General information</b>                                       | The severity of the symptoms described will vary dependent on the concentration and the length of exposure.                    |
| <b>Inhalation</b>  | No specific symptoms known.  |
| <b>Ingestion</b>   | May cause discomfort if swallowed.   |
| <b>Skin contact</b>  | May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.                      |
| <b>Eye contact</b>   | No specific symptoms known.  |
| <b>Route of entry</b>  | Ingestion Inhalation Skin and/or eye contact   |
| <b>Target organs</b>   | No specific target organs known.   |
| <b>Medical considerations</b>                                    | Skin disorders and allergies.  |

### Toxicological information on ingredients.

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

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >10000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

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### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> 20000 mg/kg, Dermal, Rabbit 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: 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.

### Reproductive toxicity

#### **Reproductive toxicity - development**

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

### Transfluthrin (ISO)

### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** > 5000 mg/kg, Rat, Raw material suppliers' information. Based on available data the classification criteria are not met.

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** > 5000 mg/kg, Rat, Raw material suppliers' information. Based on available data the classification criteria are not met.

### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LD<sub>50</sub> >0.513 mg/l, (aerosol), Inhalation, Rat

### Skin corrosion/irritation

#### **Animal data**

Irritating.

### Skin sensitisation

#### **Skin sensitisation**

Buehler test - Guinea pig: Not sensitising. Raw material suppliers' information.

### [3R-(3α,3αβ,7β,8αα)]-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<sub>50</sub>)**

Harmful if swallowed.

#### **ATE oral (mg/kg)**

500.0

### Skin corrosion/irritation

## Acana (Original) Hanging Moth Killer & Freshener

|  |   |
|--|---|
| <b>Animal data</b>   | Primary dermal irritation index: 1.15 REACH dossier information. Based on available data the classification criteria are not met. |
| <b><u>Skin sensitisation</u></b>                                 |   |
| <b>Skin sensitisation</b>  | Sensitising.  |
| <b><u>Germ cell mutagenicity</u></b>                             |   |
| <b>Genotoxicity - in vitro</b>                                   | Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.      |
| <b>Genotoxicity - in vivo</b>                                    | Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.      |
| <b><u>Carcinogenicity</u></b>                                    |   |
| <b>Carcinogenicity</b>   | NOAEL >100 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.       |
| <b><u>Specific target organ toxicity - repeated exposure</u></b> |   |
| <b>STOT - repeated exposure</b>                                  | STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.   |

### SECTION 12: Ecological Information

#### 12.1. Toxicity

|                 |  |
|-----------------|--|
| <b>Toxicity</b> | 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

|   |   |
|---|---|
| <b>Toxicity</b>                               | Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects. |
| <b>Acute toxicity - fish</b>                  | LC <sub>50</sub> , 96 hours: 10 mg/l, Brachydanio rerio (Zebra Fish)      |
| <b>Acute toxicity - aquatic invertebrates</b> | LC <sub>50</sub> , 48 hours: 3.75 mg/l, Daphnia magna<br>Estimated value. |
| <b>Acute toxicity - aquatic plants</b>        | EC <sub>50</sub> , 96 hours: 1.3 mg/l, Algae<br>Estimated value.          |

##### Transfluthrin (ISO)

|   |   |
|---|---|
| <b>Toxicity</b>                               | Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects. |
| <b><u>Acute aquatic toxicity</u></b>          |   |
| <b>LE(C)<sub>50</sub></b>                     | 0.0001 < L(E)C <sub>50</sub> ≤ 0.001  |
| <b>M factor (Acute)</b>                       | 1000  |
| <b>Acute toxicity - fish</b>                  | LC <sub>50</sub> , 96 hours: 0.0007 mg/l, Onchorhynchus mykiss (Rainbow trout)                        |
| <b>Acute toxicity - aquatic invertebrates</b> | EC <sub>50</sub> , 48 hours: 0.0017 mg/l, Daphnia magna   |
| <b>Acute toxicity - aquatic plants</b>        | IC <sub>20</sub> , 72 hours: >0.1 mg/l, Desmodium subspicatus   |

## Acana (Original) Hanging Moth Killer & Freshener

### Chronic aquatic toxicity

|                    |                        |
|--------------------|------------------------|
| NOEC               | 0.01 < NOEC ≤ 0.1      |
| Degradability      | Non-rapidly degradable |
| M factor (Chronic) | 1                      |

### [3R-(3α,3αβ,7β,8α)]-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) <sub>50</sub> | 0.1 < L(E)C <sub>50</sub> ≤ 1 |
| M factor (Acute)    | 1                             |

### Chronic aquatic toxicity

|                    |   |
|--------------------|---|
| M factor (Chronic) | 1 |
|--------------------|---|

### Coumarin

|  |  |
|--|--|
| Acute toxicity - fish                    | LC <sub>50</sub> , 96 hours: 1.324 mg/l, QSAR model                |
| Acute toxicity - aquatic invertebrates   | EC <sub>50</sub> , 48 hours: 8.012 mg/l, Daphnia magna, QSAR model |
| Acute toxicity - aquatic plants          | EC <sub>50</sub> , 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               |

## 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 product is readily biodegradable.                     |
| Phototransformation           | Water - DT <sub>50</sub> : 16.6 hours<br>Estimated value. |
| Stability (hydrolysis)        | pH7 - Half-life : 2.3 years @ 25°C<br>Estimated value.    |
| Biodegradation                | Water - Degradation 76%: 28 days                          |

#### Transfluthrin (ISO)

|                               |   |
|-------------------------------|---|
| Persistence and degradability | The product is not readily biodegradable. |
|-------------------------------|---|

## Acana (Original) Hanging Moth Killer & Freshener

### [3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

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

#### Coumarin

**Persistence and degradability** The product is readily biodegradable.

**Biodegradation** Water - Degradation 100%: 28 days

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

### Ecological information on ingredients.

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

**Bioaccumulative potential** BCF: 319, Fish, Estimated value. The product is not bioaccumulating.

**Partition coefficient** log Pow: 3.86 Estimated value.

#### Transfluthrin (ISO)

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

### [3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-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

### 12.4. Mobility in soil

**Mobility** No data available.

### Ecological information on ingredients.

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

**Mobility** The product 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 product has poor water-solubility.

**Adsorption/desorption coefficient** Water - log Koc: 4.7 @ 20°C

## Acana (Original) Hanging Moth Killer & Freshener

### [3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

**Mobility** No data available.

#### Coumarin

**Mobility** The product is soluble in water.

### 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** This substance is not classified as PBT or vPvB according to current EU criteria.

### [3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-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.

### 12.6. Other adverse effects

**Other adverse effects** None 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. 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.

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 3082

**UN No. (IMDG)** 3082

**UN No. (ICAO)** 3082

## Acana (Original) Hanging Moth Killer & Freshener

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

EmS F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## Acana (Original) Hanging Moth Killer & Freshener

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

|                             |  |
|-----------------------------|--|
| <b>National regulations</b> | Health and Safety at Work etc. Act 1974 (as amended).<br>The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).<br>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].<br>EH40/2005 Workplace exposure limits.   |
| <b>EU legislation</b>       | 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).<br>Commission Regulation (EU) No 453/2010 of 20 May 2010.<br>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).<br>Dangerous Preparations Directive 1999/45/EC.<br>Dangerous Substances Directive 67/548/EEC. |

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

|   |  |
|---|--|
| <b>Classification procedures according to Regulation (EC) 1272/2008</b> | Skin Irrit. 2 - H315: Skin Sens. 1 - H317: : Calculation method. Aquatic Acute 1 - H400: Aquatic Chronic 2 - H411: : Calculation method. |
| <b>Training advice</b>  | Read and follow manufacturer's recommendations.  |
| <b>Revision comments</b>  | Revised formulation.   |
| <b>Revision date</b>  | 08/10/2015   |
| <b>Revision</b>   | 2  |
| <b>Supersedes date</b>  | 09/01/2015   |
| <b>SDS number</b>   | 2220   |



## Acana (Original) Hanging Moth Killer & Freshener

### Risk phrases in full

R10 Flammable.  
R11 Highly flammable.  
R22 Harmful if swallowed.  
R36/37 Irritating to eyes and respiratory system.  
R38 Irritating to skin.  
R43 May cause sensitisation by skin contact.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.  
R50 Very toxic to aquatic organisms.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R63 Possible risk of harm to the unborn child.  
R65 Harmful: may cause lung damage if swallowed.  
R67 Vapours may cause drowsiness and dizziness.

### Hazard statements in full

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.

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.