

ACANA Carpet & Fabric Moth Killer Spray



SAFETY DATA SHEET

ACANA Carpet & Fabric Moth Killer Spray

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/undertaking1.1. Product identifier

Product name ACANA Carpet & Fabric Moth Killer Spray
Product number 5060214390545, 5060214391108

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

Relevant identified uses Moth Killer
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,
St Nicholas Court,
25-27 Castle Gate
Nottingham,
NG1 7AR,
UK
T: +44 (0) 115 824 9707
F: +44 (0) 115 824 9717
info@acana.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0) 115 824 9707
(08:00 - 16:00h GMT Monday - Friday)
111
(24 hours, 7 days a week)

Language English

SECTION 2: Hazards identification2.1. Classification of the substance or mixture
Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Eye Irrit. 2 - H319
Environmental hazards Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

2.2. Label elements

Hazard pictograms



Signal word Warning

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Hazard statements

H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.

Supplemental hazards

EUH208 Contains Geraniol. May produce an allergic reaction.

Supplementary precautionary statements

P273 Avoid release to the environment.
P337+P313 If eye irritation persists: Get medical advice/ attention.

2.3. 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

Alcohols, C16-18, ethoxylated (>2.5 moles EO)	1-<3%
CAS number: 68439-49-6	EC number: 500-212-8
Classification	
Acute Tox. 4 - H302	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	

3-Methoxy-3-methylbutan-1-ol	1-<3%
CAS number: 56539-66-3	EC number: 260-252-4
Classification	
Eye Irrit. 2 - H319	

Geraniol	0.5-<1%
CAS number: 106-24-1	EC number: 203-377-1
Classification	REACH registration number: 01-2119552430-49-XXXX
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	

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Propane-1,2-diol	0.5-<1%
CAS number: 57-55-6	EC number: 200-338-0
Substance with National workplace exposure limits	
Classification	
Not classified	

Transfluthrin	<0.1%
CAS number: 118712-89-3	EC number: 405-060-5
M factor (Acute) = 1000	M factor (Chronic) = 1000
Classification	
Skin Irrit. 2 – H315	
Aquatic Acute 1 – H400	
Aquatic Chronic 1 – H410	

Dipropylene glycol monomethyl ether	<0.025%
CAS number: 34590-94-8	EC number: 252-104-2
REACH registration number: 01-2119450011-60-XXXX	
Substance with National workplace exposure limits	
Classification	
Not classified	

5-Methylheptan-3-one	<0.025%
CAS number: 541-85-5	EC number: 208-793-7
Classification	
Flam. Liq. 3 - H226	
Eye Irrit. 2 - H319	
STOT SE 3 - H335	

Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	<15 ppm
CAS number: 55965-84-9	EC number: 611-341-5
M factor (Acute) = 100	M factor (Chronic) = 100
Classification	Specific concentration limits
Acute Tox. 3 - H301	Eye Dam. 1; H318: C ≥ 0,6 %
Acute Tox. 2 - H310	Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 %
Acute Tox. 2 - H330	Skin Corr. 1C; H314: C ≥ 0,6 %
Skin Corr. 1C - H314	Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 %
Eye Dam. 1 - H318	Skin Sens. 1A; H317: C ≥ 0,0015 %
Skin Sens. 1A - H317	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

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 is displayed in Section 16.

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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	Wash skin thoroughly with soap and water.
Eye contact	Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. 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	Symptoms following overexposure to vapour may include the following: Headache. Irritation of nose, throat, and airway.
Ingestion	May cause discomfort if swallowed.
Skin contact	May cause discomfort. May cause skin sensitisation or allergic reactions in sensitive individuals. Mild dermatitis, allergic skin rash.
Eye contact	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	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: Avoid contact with eyes and prolonged skin contact. For users with sensitive skin, it is recommended that suitable protective gloves are worn.

6.1.2 Emergency responders: Wear personal protective equipment. Refer to Section 8 for more information.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains and the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Do not empty into drains. Wear protective clothing as described in Section 8 of this safety data sheet. Absorb spillage with non-combustible, absorbent material. 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. 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. 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 Store away from incompatible materials (see Section 10). Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed, in a cool, 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)

Propane-1,2-diol

Long-term exposure limit (8-hour TWA): WEL 150 ppm; 474 mg/m³ (total vapour and particulates)

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

Transfluthrin (ISO)

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

Dipropylene glycol monomethyl ether

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

Sk

5-Methylheptan-3-one

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

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

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Toluene

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

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

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

Monitoring methods: Unknown

DNELs

Geraniol (CAS: 106-24-1)

Workers – Inhalation: Long term systemic effects: 161.6 mg/m³ Workers – Dermal: 12.5 mg/kg/day Workers – Dermal: Long term local effects: 11800 µg/cm²

General population – Inhalation: Long term systemic effects: 47.8 mg/m³

General population – Dermal: Long term systemic effects: 7.5 mg/kg/day

General population – Dermal: Long term local effects: 11800 µg/cm²

General population – Oral: Long term systemic effects: 13.75 mg/kg/day

PNECs

Geraniol (CAS: 106-24-1)

Fresh water: 0.011 mg/l

Fresh water, Intermittent release: 0.108 mg/L; marine water: 0.001 mg/L

STP: 0.7 mg/L

Sediment (Freshwater): 0.115 mg/kg

Sediment (Marine water): 0.011 mg/kg

Soil: 0.017 mg/kg

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

May cause skin sensitisation or allergic reactions in sensitive individuals. For users with sensitive skin, it is recommended that suitable protective gloves are worn.

Hygiene measures

Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product.

Wash contaminated clothing before reuse.

Respiratory protection

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 discharge to the aquatic environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Colourless.
Odour	Lavender.
Odour threshold	Not available.
pH	Not available.
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability	Not Available.
Upper/lower explosive limits	Not Available.
Vapour pressure	Not Available.
Vapour density	Not available.
Particle characteristics	Not applicable (mixture is a liquid)
Relative density	Not available.
Solubility(ies)	Not known.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not applicable.

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
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No potentially hazardous reactions known.
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10.4. Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time.
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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.
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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.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Full mixture

Acute toxicity - oral

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

ATE oral (mg/kg) 17,241

Acute toxicity - dermal

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

Acute toxicity - inhalation

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

Skin corrosion/irritation

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

Serious eye damage/irritation

Summary Causes serious eye irritation.

Respiratory sensitisation

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

Skin sensitisation

Summary May cause skin sensitisation or allergic reactions in sensitive individuals.

Germ cell mutagenicity

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

Carcinogenicity

Summary 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

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

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Summary 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

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Toxicological information on ingredients.

Alcohols, C16-18, ethoxylated (>2.5 moles EO)

Acute toxicity - oral

Notes (oral LD₅₀) Harmful if swallowed.

ATE oral (mg/kg) 500.0

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage

Carcinogenicity

Carcinogenicity There is no evidence that the product can cause cancer.

Geraniol

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 3600 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >5000 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: Very slight oedema - barely perceptible (1). Primary dermal irritation index: 3.3 REACH dossier information. Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information. Epidemiological studies have shown evidence of skin sensitisation.

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.

Carcinogenicity

Carcinogenicity NOEL 2000 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility

Reproductive toxicity - development

Transfluthrin (ISO)

Acute toxicity - oral

Screening - NOAEL 300 mg/kg/day, Dermal, Rat P REACH dossier information. Based on available data the classification criteria are not met.

Developmental toxicity: - NOAEL: 300 mg/kg/day, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

Notes (oral LD₅₀) > 5000 mg/kg, Rat, Raw material suppliers' information. Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) > 5000 mg/kg, Rat, Raw material suppliers' information. Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LD₅₀ >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.

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Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg): 64

Species Rat

Notes (oral LD₅₀) Toxic if swallowed.

ATE oral (mg/kg) 64.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg): 87.12

Species Rat

Notes (dermal LD₅₀) Toxic in contact with skin.

ATE dermal (mg/kg) 87.12

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 0.171

Species Rat

Notes (inhalation LC₅₀) Fatal if inhaled.

ATE inhalation (dusts/mists mg/l) 0.171

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 4 hours, Rabbit Corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 mL, 7 days, Rabbit Causes serious eye damage.

Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity NOEL 300 ppm, Oral, Rat

Reproductive toxicity

Reproductive toxicity fertility Two-generation study - NOEL 30 ppm, Oral, Rat P

Reproductive toxicity - development

Maternal toxicity: - LOAEL: 28 mg/kg/day, Oral, Rat

Embryotoxicity: Teratogenicity: NOEL: >= 19.6 mg/kg/day, Oral, Rat

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOEL 16.3 mg/kg/day, Oral, Rat

NOEL 0.34 mg/m³, Inhalation, Rat

11.2 Other information

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. ToxicityAcute aquatic toxicity

Summary on the mixture

Chronic aquatic toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Ecological information on ingredients.Alcohols, C16-18, ethoxylated (>2.5 moles EO)Toxicity

Based on available data the classification criteria are not met

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, 96 hours: 1 mg/l, *Brachydanio rerio* (Zebra Fish)GeraniolToxicity

Aquatic toxicity is unlikely to occur.

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, 96 hours: 22 mg/l, *Brachydanio rerio* (Zebra Fish)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 10.8 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants

EC₅₀, 72 hours: 13.1 mg/l, *Desmodesmus subspicatus*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)₅₀0.0001 < L(E)C₅₀ ≤ 0.001

M factor (Acute)

1000

Acute toxicity - fish

LC₅₀, 96 hours: 0.0007 mg/l, *Oncorhynchus mykiss* (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 0.0017 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants

IC₂₀, 72 hours: >0.1 mg/l, *Desmodesmus subspicatus*Chronic aquatic toxicity

M factor (Chronic)

1000

Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)Toxicity

Very toxic to aquatic life with long lasting effects.

LE(C)₅₀0.001 < L(E)C₅₀ ≤ 0.01

M factor (Acute)

100

Acute toxicity - fish

LC₅₀, 96 hours: 0.19 mg/l, *Oncorhynchus mykiss* (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 0.16 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants

EC₅₀, 72 hours: 6.3 µg/l, *Skeletonema costatum*

Acute toxicity - microorganisms

EC₅₀, 3 hours: 4.5 mg/l, Activated sludgeChronic aquatic toxicity

NOEC

0.0001 < NOEC ≤ 0.001

Degradability

Non-rapidly degradable

M factor (Chronic)

100

Chronic toxicity - fish early life stage

NOEC, 35 days: ≥ 46.4 µg/l, *Brachydanio rerio* (Zebra Fish)

Chronic toxicity - aquatic invertebrates

NOEC, 21 days: 0.1 mg/l, *Daphnia magna*

12.2. Persistence and degradability

Persistence and degradability

The degradability of the product is not known

Ecological information on ingredients.Alcohols, C16-18, ethoxylated (>2.5 moles EO)

Persistence and degradability

The degradability of the substance is not known.

Geraniol

Persistence and degradability

The substance is readily biodegradable

Biodegradation

Water - Degradation 90-100%: 3 days

Transfluthrin (ISO)

Persistence and degradability

The product is not readily biodegradable.

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Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)

Biodegradation

Water - Degradation 62%: 29 days
Readily biodegradable but failing the 10-day window.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation for the mixture

Partition coefficient

Not available for the mixture.

Ecological information on ingredients.

Alcohols, C16-18, ethoxylated (>2.5 moles EO)

Bioaccumulative potential

No data available on bioaccumulation

Geraniol

Bioaccumulative potential

No data available on bioaccumulation

Partition coefficient

log Pow: 2.6

Transfluthrin (ISO)

Bioaccumulative potential

The substance is not bioaccumulating. BCF: 1783, Fish

Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)

Bioaccumulative potential

BCF: 41 - 54, *Lepomis macrochirus* (Bluegill)

Partition coefficient

Pow: 0.326, 2.519

12.4. Mobility in soil

Mobility

No data on the mixture available

Ecological information on ingredients

Alcohols, C16-18, ethoxylated (>2.5 moles EO)

Mobility

The substance is soluble in water

Geraniol

Mobility

The substance is soluble in water.

Adsorption/desorption coefficient

Water - log Koc: 1.85 @ 25°C Estimated value.

Transfluthrin (ISO)

Mobility

The substance has poor water-solubility

Adsorption/desorption coefficient

Water - log Koc: 4.7 @ 20°C

Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)

Surface tension

73 mN/m @ 19.5°C

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.

Alcohols, C16-18, ethoxylated (>2.5 moles EO)

Results of PBT and vPvB assessment

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

Geraniol

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.

Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)

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.

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.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	Reuse or recycle products wherever possible. 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	Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General	For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.
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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), Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1))
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Transfluthrin (ISO), Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1))
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Transfluthrin (ISO), Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1))
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Transfluthrin (ISO), Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1))

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
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



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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 (-)

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

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

SECTION 15: Regulatory information

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

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

16.1 Indication of changes

Release date: 02 March 2015
Revision date: 26 June 2024
Version: 4
Revised Sections: 1, 2, 3, 8, 9, 10, 11, 12, 15, and 16
Supersedes: Version 3, 8 March 2015
SDS number: 2234

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, labelling 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
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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)

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/>

Geraniol disseminated registration dossier:

<https://chem.echa.europa.eu/100.003.071/overview>

Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1) disseminated registration dossier:

<https://chem.echa.europa.eu/100.136.387/overview>

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Eye Irrit. 2 - H319: Calculation method.

Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410: 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. H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways. H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H319 Causes serious eye irritation. H330 Fatal if inhaled.

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. H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains Geraniol, Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction. P102 Keep out of reach of children.

P264 Wash contaminated skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337+P313 If eye irritation persists: Get medical advice/ attention.

P391 Collect spillage.

P501 Dispose of contents/ container in accordance with national regulations.

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16.6 Training advice Read and follow manufacturer's recommendations.

16.7 Further information For more information, please contact Acana Ltd.

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.