

## **Callington Aircraft Pre-Spray Insecticide**

## **Callington Haven Pty Ltd**

Chemwatch: 62763 Version No: 11.1.1.1

Safety Data Sheet according to WHS and ADG requirements

## Chemwatch Hazard Alert Code: 2

Issue Date: **27/11/2019** Print Date: **29/01/2020** S.GHS.AUS.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

Product name	Callington Aircraft Pre-Spray Insecticide
Synonyms	permethrin spray
Proper shipping name	AEROSOLS
Other means of identification	Not Available

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Residual insecticide for preflight spraying of cabin lockers, toilets, flight deck and crew rest areas.

#### Details of the supplier of the safety data sheet

Registered company name	Callington Haven Pty Ltd
Address	30 South Street Rydalmere NSW 2116 Australia
Telephone	+61 2 9898 2700
Fax	+61 2 9475 0449
Website	www.callingtonhaven.com
Email	customerservice@callington.com

#### Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	+61 1800 951 288
Other emergency telephone numbers	+61 2 9186 1132

Once connected and if the message is not in your prefered language then please dial 01

## **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

Poisons Schedule	Not Applicable	
Classification <sup>[1]</sup>	Skin Sensitizer Category 1, Chronic Aquatic Hazard Category 1, Gas under Pressure (Compressed gas)	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements

Hazard pictogram(s)







SIGNAL WORD	WARNING

#### Hazard statement(s)

• •	
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
H280	Contains gas under pressure; may explode if heated.

## Precautionary statement(s) Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P261	Avoid breathing mist/vapours/spray.	
P273	Avoid release to the environment.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

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Precautionary statement(s) Response

P321	Specific treatment (see advice on this label).
P363	Wash contaminated clothing before reuse.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.

## Precautionary statement(s) Storage

P410+P403 Protect from sunlight. Store in a well-ventilated place.

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

#### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name
64-17-5	<10	ethanol
52645-53-1	2	permethrin
Not Available		HFC propellant, as
811-97-2	>60	1.1.1.2-tetrafluoroethane

## **SECTION 4 FIRST AID MEASURES**

## Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  • Wash out immediately with fresh running water.  • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  • Seek medical attention without delay; if pain persists or recurs seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If solids or aerosol mists are deposited upon the skin:  Flush skin and hair with running water (and soap if available).  Remove any adhering solids with industrial skin cleansing cream.  DO NOT use solvents.  Seek medical attention in the event of irritation.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	If poisoning occurs, contact a doctor or Poisons Information Centre.  If swallowed do NOT induce vomiting.  If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.  Observe the patient carefully.  Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious  Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.  Seek medical advice.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5 FIREFIGHTING MEASURES**

## Extinguishing media

- ► Water spray or fog.
- ► Foam.
- Dry chemical powder.
- ► BCF (where regulations permit).
- Carbon dioxide.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility None known		
Advice for firefighters		
Fire Fighting	▶ Alert Fire Brigade and tell them location and nature of hazard.	

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	May be violently or explosively reactive.
	<ul> <li>Wear breathing apparatus plus protective gloves.</li> </ul>
	Prevent, by any means available, spillage from entering drains or water courses.
	Use fire fighting procedures suitable for surrounding area.
	<ul> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> </ul>
	If safe to do so, remove containers from path of fire.  If safe to do so, remove containers from path of fire.
	Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered to be a significant fire risk.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>Aerosol cans may explode on exposure to naked flames.</li> <li>Rupturing containers may rocket and scatter burning materials.</li> <li>Hazards may not be restricted to pressure effects.</li> <li>May emit acrid, poisonous or corrosive fumes.</li> <li>Decomposes on heating and may emit toxic fumes of carbon monoxide (CO).</li> <li>Other combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>phosgene</li> <li>chlorides</li> <li>and</li> <li>fluorides</li> </ul>
HAZCHEM	Not Applicable

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> <li>Wipe up.</li> <li>If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.</li> <li>Undamaged cans should be gathered and stowed safely.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Water spray or fog may be used to disperse / absorb vapour.</li> <li>Absorb or cover spill with sand, earth, inert materials or vermiculite.</li> <li>If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated.</li> <li>Undamaged cans should be gathered and stowed safely.</li> <li>Collect residues and seal in labelled drums for disposal.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## **SECTION 7 HANDLING AND STORAGE**

Precautions for safe handling	
	Avoid all personal contact, including inhalation.
	Wear protective clothing when risk of exposure occurs.
	▶ Use in a well-ventilated area.
	Prevent concentration in hollows and sumps.
	▶ DO NOT enter confined spaces until atmosphere has been checked.
	Avoid smoking, naked lights or ignition sources.
	Avoid contact with incompatible materials.
Oafa han diin n	When handling, DO NOT eat, drink or smoke.
Safe handling	▶ DO NOT incinerate or puncture aerosol cans.
	▶ DO NOT spray directly on humans, exposed food or food utensils.
	Avoid physical damage to containers.

- Always wash hands with soap and water after handling.
- ▶ Work clothes should be laundered separately.
- Use good occupational work practice.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

## Other information

- Store in original containers.
- Store in an upright position.
- ▶ DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- No smoking, naked lights, heat or ignition sources.
- Keep containers securely sealed.
- Contents under pressure.

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- Store in a cool, dry, well ventilated area; away from incompatible materials.
- Avoid storage at temperatures higher than 40 deg C.
- ▶ Protect containers against physical damage.
- Check regularly for leaks.
- Observe manufacturer's storage and handling recommendations contained within this SDS.

#### Conditions for safe storage, including any incompatibilities

#### Suitable container

- Aerosol dispenser
- Check that containers are clearly labelled.

Storage incompatibility

Avoid reaction with alkali metals, magnesium and magnesium alloys, zinc, aluminium alloys (2% magnesium). Avoid contact with plastics such as methacrylate polymers, polyethylene and polystyrene.

## **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **Control parameters**

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ethanol	Ethyl alcohol	1000 ppm / 1880 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	1,1,1,2-tetrafluoroethane	1,1,1,2-Tetrafluoroethane	1000 ppm / 4240 mg/m3	Not Available	Not Available	Not Available

#### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
ethanol	Ethyl alcohol; (Ethanol)	Not Available	Not Available	15000 ppm
1,1,1,2-tetrafluoroethane	HFC 134a; (Tetrafluoroethane, 1,1,1,2-)	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
ethanol	3,300 ppm	Not Available
permethrin	Not Available	Not Available
1,1,1,2-tetrafluoroethane	Not Available	Not Available

#### OCCUPATIONAL EXPOSURE BANDING

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
permethrin	Е	≤ 0.01 mg/m³
Notes:	Occupational exposure banding is a process of assigning chemicals into s adverse health outcomes associated with exposure. The output of this pro range of exposure concentrations that are expected to protect worker heal	cess is an occupational exposure band (OEB), which corresponds to a

## Exposure controls

# Appropriate engineering controls

General exhaust is adequate under normal operating conditions.

#### Personal protection











## No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE:

▶ Safety glasses with side shields.

## Eye and face protection

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

## Skin protection

See Hand protection below

#### Hands/feet protection

- ▶ No special equipment needed when handling small quantities
- ▶ OTHERWISE: Wear general protective gloves, e.g. light weight rubber gloves. Or as required: Wear chemical protective gloves, e.g. PVC. Wear safety footwear.

## Body protection

See Other protection below

No special equipment needed when handling small quantities.

## Other protection

- OTHERWISE:

   Overalls.
- Barrier cream.
- Eyewash unit.

## DO NOT spray on hot surfaces.

#### Recommended material(s)

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Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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Material	СРІ
BUTYL	A
NEOPRENE	A
NITRILE	A
NITRILE+PVC	A
PE/EVAL/PE	A
PVC	В
NATURAL RUBBER	С
NATURAL+NEOPRENE	С

<sup>\*</sup> CPI - Chemwatch Performance Index

A: Best Selection

- B: Satisfactory; may degrade after 4 hours continuous immersion
- C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 5 x ES	Air-line*	AX-2	AX-PAPR-2 ^
up to 10 x ES	-	AX-3	-
10+ x ES	-	Air-line**	-

<sup>\* -</sup> Continuous Flow; \*\* - Continuous-flow or positive pressure demand ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

	and onemical properties				
Appearance	Liquid in aerosol pack. Contains non-combustible pro	Liquid in aerosol pack. Contains non-combustible propellant.			
Physical state	Liquid	Relative density (Water = 1)	Not Available		
Physical state	Liquid	Relative defisity (water = 1)	Not Available		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable		
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available		
Melting point / freezing point (°C)	Not available.	Viscosity (cSt)	Not Available		
Initial boiling point and boiling range (°C)	Not available.	Molecular weight (g/mol)	Not Applicable		
Flash point (°C)	Not Applicable	Taste	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available		
Flammability	Not Applicable	Oxidising properties	Not Available		
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available		
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available		
Vapour pressure (kPa)	Not available.	Gas group	Not Available		
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable		
Vapour density (Air = 1)	>1	VOC g/L	Not Available		

#### **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## **SECTION 11 TOXICOLOGICAL INFORMATION**

#### Information on toxicological effects

Inhaled

The vapour/mist is discomforting

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	to the upper respiratory tract and lungs Acute effects from inhalation of high vapour concentrations may be che nausea.  WARNING:Intentional misuse by concentrating/inhaling contents may be	
Ingestion	Not considered an irritant through normal use.  Overexposure is unlikely in this form.  The mist is discomforting to the gastro-intestinal tract	
Skin Contact	The material may be slightly discomforting to the skin if exposure is prolonged	
Еуе	The mist is discomforting to the eyes and is capable of causing a mild, temporary redness of the conjunctiva (simila damage/ ulceration Extremely discomforting to eyes.	ar to wind-burn), temporary impairment of vision and/ or other transient eye
Chronic	Principal routes of exposure are usually by skin contact and inhalation of vapour/spray mist As with any chemical product, contact with unprotected bare skin; inhal form, should be avoided by observing good occupational work practice Skin contact with the material is more likely to cause a sensitisation real	
Callington Aircraft Pre-Spray Insecticide	TOXICITY  Not Available	IRRITATION  Not Available
ethanol	TOXICITY  Inhalation (rat) LC50: 124.7 mg/l/4H <sup>[2]</sup> Oral (rat) LD50: =1501 mg/kg <sup>[2]</sup>	IRRITATION  Eye (rabbit): 500 mg SEVERE  Eye (rabbit): 100mg/24hr-moderate  Eye: adverse effect observed (irritating)[1]  Skin (rabbit): 20 mg/24hr-moderate  Skin (rabbit): 400 mg (open)-mild  Skin: no adverse effect observed (not irritating)[1]
permethrin	TOXICITY  dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup> Oral (rat) LD50: 383 mg/kg <sup>[2]</sup>	IRRITATION  Skin (rabbit): 500 mg/24h - mild
1,1,1,2-tetrafluoroethane	TOXICITY Inhalation (rat) LC50: 1500 mg/l/4h <sup>[2]</sup>	IRRITATION  Not Available
Legend:	Value obtained from Europe ECHA Registered Substances - Acute t specified data extracted from RTECS - Register of Toxic Effect of chen	toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise nical Substances
PERMETHRIN	eczema involves a cell-mediated (T lymphocytes) immune reaction of t involve antibody-mediated immune reactions. The significance of the condistribution of the substance and the opportunities for contact with it are distributed can be a more important allergen than one with stronger selliclinical point of view, substances are noteworthy if they produce an aller the substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in animal test [* The Pesticides Manual, Incorporating The Agrochemicals Hand Council]	e rarely as urticaria or Quincke's oedema. The pathogenesis of contact the delayed type. Other allergic skin reactions, e.g. contact urticaria, ontact allergen is not simply determined by its sensitisation potential: the e equally important. A weakly sensitising substance which is widely nsitising potential with which few individuals come into contact. From a ergic test reaction in more than 1% of the persons tested.
1,1,1,2- TETRAFLUOROETHANE	in water. Animal studies have shown that some DBPs cause cancer. To Numerous haloalkanes and haloalkenes have been tested for cancer-c genetic toxicity is dependent on the nature, number and position of hal Haloalkenes are of concern because of the potential to generate genet may be diminished if the double bond is internal or sterically hindered.	chlorine, chloramines and ozone react with organic and inorganic matter of date, several hundred DBPs have been identified. causing and mutation-causing activities. In general, the potential to cause ogen(s) and the size of the molecule. circully toxic intermediates after epoxidation. The concern for haloalkenes are been rated, based on available screening cancer bioassays and data on to brominated THMs than others.

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The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of **ETHANOL & PERMETHRIN** vesicles, scaling and thickening of the skin. **Acute Toxicity** Carcinogenicity × Skin Irritation/Corrosion × Reproductivity Serious Eye Damage/Irritation STOT - Single Exposure Respiratory or Skin 4 STOT - Repeated Exposure sensitisation Mutagenicity × **Aspiration Hazard** 

> 💢 – Data either not available or does not fill the criteria for classification Legend: Data available to make classification

## **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

allington Aircraft Pre-Spray Insecticide	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOUR
	Not Available	Not Available	Not Available	Not Available	Not Availat
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOUR
	LC50	96	Fish	11-mg/L	2
ethanol	EC50	48	Crustacea	Crustacea 2mg/L	
	EC50	96	Algae or other aquatic plants	17.921mg/L	4
	NOEC	2016	Fish	0.000375mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOUR
	LC50	96	Fish	0.00062mg/L	4
	EC50	48	Crustacea	0.000112mg/L	4
permethrin	EC50	96	Algae or other aquatic plants	0.005mg/L	3
	BCFD	24	Algae or other aquatic plants	1mg/L	4
	NOEC	96	Crustacea	0.000025mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOUR
	LC50	96	Fish	29.671mg/L	3
1,1,1,2-tetrafluoroethane	EC50	48	Crustacea	980mg/L	5
	EC50	96	Algae or other aquatic plants	97.260mg/L	3
	NOEC	72	Algae or other aquatic plants	ca.13.2mg/L	2
Legend:		,	HA Registered Substances - Ecotoxicological Inform IS EPA, Ecotox database - Aquatic Toxicity Data 5.	,	

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DO NOT discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)
permethrin	HIGH	HIGH
1,1,1,2-tetrafluoroethane	HIGH	HIGH

## Bioaccumulative potential

Ingredient	Bioaccumulation
ethanol	LOW (LogKOW = -0.31)
permethrin	LOW (LogKOW = 7.4267)
1,1,1,2-tetrafluoroethane	LOW (LogKOW = 1.68)

## Mobility in soil

Ingredient	Mobility
ethanol	HIGH (KOC = 1)
permethrin	LOW (KOC = 178400)
1,1,1,2-tetrafluoroethane	LOW (KOC = 96.63)

## **SECTION 13 DISPOSAL CONSIDERATIONS**

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#### Waste treatment methods

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Product / Packaging disposal

- ▶ Consult State Land Waste Management Authority for disposal.
- ▶ Discharge contents of damaged aerosol cans at an approved site.
- Allow small quantities to evaporate.
- ▶ **DO NOT** incinerate or puncture aerosol cans.
- ▶ Bury residues and emptied aerosol cans at an approved site.

#### **SECTION 14 TRANSPORT INFORMATION**

## Labels Required



**Marine Pollutant** 



**HAZCHEM** 

Not Applicable

#### Land transport (ADG)

-uuopo() (2-0)	
UN number	1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	Class 2.2 Subrisk Not Applicable
Packing group	Not Applicable
Environmental hazard	Environmentally hazardous
Special precautions for user	Special provisions         63 190 277 327 344 381           Limited quantity         1000ml

## Air transport (ICAO-IATA / DGR)

UN number	1950	1950		
UN proper shipping name	Aerosols, non-flammable	9		
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	2.2 Not Applicable 2L		
Packing group	Not Applicable			
Environmental hazard	Environmentally hazardo	pus		
Special precautions for user	Special provisions  Cargo Only Packing Instructions  Cargo Only Maximum Qty / Pack  Passenger and Cargo Packing Instructions  Passenger and Cargo Maximum Qty / Pack  Passenger and Cargo Limited Quantity Packing Instructions  Passenger and Cargo Limited Maximum Qty / Pack		A98 A145 A167 A802 203 150 kg 203 75 kg Y203 30 kg G	-

#### Sea transport (IMDG-Code / GGVSee)

UN number	1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	IMDG Class 2.2  IMDG Subrisk Not Applicable
Packing group	Not Applicable
Environmental hazard	Marine Pollutant
Special precautions for user	EMS Number         F-D , S-U           Special provisions         63 190 277 327 344 381 959           Limited Quantities         1000 ml

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#### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### **SECTION 15 REGULATORY INFORMATION**

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

#### ETHANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Appendix B (Part 3)

GESAMP/EHS Composite List - GESAMP Hazard Profiles

Australia Inventory of Chemical Substances (AICS)

IMO IBC Code Chapter 17: Summary of minimum requirements

#### PERMETHRIN IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 2

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 4

IMO IBC Code Chapter 18: List of products to which the Code does not apply IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substance:

IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO

IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards

International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 6

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

#### 1,1,1,2-TETRAFLUOROETHANE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Dangerous Goods Code (ADG Code) - Packing Instruction - Liquefied and Dissolved Gases

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

## **ECHA SUMMARY**

Ingredient	CAS number	Index No		ECHA Dossier	
ethanol	64-17-5	603-002-00-5		01-2119457610-43-XXXX	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Wo	ord Code(s)	Hazard Statement Code(s)
1	Flam. Liq. 2		GHS02; Dgr		H225
1	Carc. 2		GHS08; Wng		H351
1	Flam. Liq. 2		GHS02; Dgr		H225
1	Flam. Liq. 2		GHS02; Dgr		H225
1	Flam. Liq. 2		GHS02; Dgr		H225
1	Flam. Liq. 2		GHS02; Dgr		H225

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Ingredient	CAS number	Index No	ECHA Dossier
permethrin	52645-53-1	613-058-00-2	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Acute Tox. 4; Skin Sens. 1; Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1	GHS09; GHS07; Wng	H302; H317; H332; H410

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Ingredient	CAS number	Index No	ECHA Dossier
1,1,1,2-tetrafluoroethane	811-97-2	Not Available	01-2119459374-33-XXXX

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Press. Gas;	GHS04; Wng	H280

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

### **National Inventory Status**

National Inventory	Status	
Australia - AICS	Yes	

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#### Callington Aircraft Pre-Spray Insecticide

Canada - DSL	No (permethrin)		
Canada - NDSL	No (ethanol; 1,1,1,2-tetrafluoroethane; permethrin)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	Yes		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	No (permethrin)		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		
Vietnam - NCI	Yes		
Russia - ARIPS	Yes		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)		

#### **SECTION 16 OTHER INFORMATION**

Revision Date	27/11/2019
Initial Date	04/06/2003

#### **SDS Version Summary**

Version	Issue Date	Sections Updated
10.1.1.1	26/11/2019	Acute Health (eye), Chronic Health, Classification, Environmental
11.1.1.1	27/11/2019	Classification, Environmental, Ingredients

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit $_{\circ}$ 

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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