Section 1 - Identification of The Material and Supplier

Ensystex Australasia Pty Ltd
Warehouse D, Building 6, The Switchyard
161 Manchester Road, AUBURN, NSW 2144
13 35 36 (all hours)

Ensystex New Zealand Ltd
17C Corinthian Drive
Albany, Auckland 0752
0800 ENSYSTEX (0800 367 978)

Chemical nature: Cypermethrin and imiprothrin are pyrethroid derivatives.

Trade Name: AEROTHOR™ Extra Strength Crawling Insect Spray

Product Code: Australia: APVMA Registration: 63593 New Zealand: ERMA Registration: HSR07108

Product Use: Insecticide for use as described on the product label.

Creation Date: **October, 2008**

This version issued: **November, 2023** and is valid for 5 years from this date.

Section 2 - Hazards Identification

Statement of Hazardous Nature
SUSMP Classification: S5
ADG Classification: Classified as a Dangerous Good according to Australian Dangerous Goods (ADG) Code.
UN Number: 1950 2.1
GHS Classification:

Aerosols: Category 1
Hazardous to aquatic environment, long-term hazard: Category 2

GHS Signal word: DANGER

HAZARD STATEMENT:

H222: Extremely flammable aerosol.
H229: Pressurized container: may burst if heated.
H411: Toxic to aquatic life with long lasting effects.

PREVENTION

P102: Keep out of reach of children.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211: Do not spray on an open flame or other ignition source.
P251: Do not pierce or burn, even after use.
P273: Avoid release to the environment.

RESPONSE

P391: Collect spillage.

STORAGE

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

Emergency Overview

Physical Description & colour: Liquid in aerosol container.
Odour: Solvent-like odour.
Major Health Hazards: If aspirated, may cause lung damage, repeated exposure may cause skin dryness.

Potential Health Effects

Inhalation:

Short term exposure: Product may be irritating, although unlikely to cause anything more than mild transient discomfort. Intentional misuse by deliberately concentrating and inhaling contents of aerosol containers can be harmful or fatal.
Long Term exposure: No data for health effects associated with long term inhalation.

Skin Contact:

Short term exposure: Major health effect from this product is misuse of the aerosol function. If sprayed continuously on skin or in eyes, it can cause frostbite.
Long Term exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short term exposure: If sprayed directly in the eye, this product will irritate. If spraying is prolonged, it may cause damage through frostbite.
Long Term exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short term exposure: Significant oral exposure is considered to be unlikely. Because of the low viscosity of this product, it may directly enter the lungs if swallowed, or if subsequently vomited. Once in the lungs, it is very difficult to remove and can cause severe injury. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.
Long Term exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.
NTP: No significant ingredient is classified as carcinogenic by NTP.
IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc.,%	TWA (mg/m^3)	STEL (mg/m^3)
Cypermethrin	52315-07-8	0.20%	Not set	Not set
Imiprothrin	72963-72-5	0.14%	Not set	Not set
Isopropyl alcohol	67-63-0	<10%	Not set	Not set
Naphtha (petroleum), hydro treated	64742-48-9	<35%	Not set	Not set
Propane/ Butane	106-97-8/ 74-98-6	to 100%	Not set	Not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: Move exposed person to fresh air. Get medical attention if adverse health effects persist or are severe.
Skin Contact: Quickly and gently blot away excess liquid. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 10 minutes or until chemical is removed. If irritation persists, repeat flushing and obtain medical advice.
Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 10 minutes or until the product is removed, while holding the eyelid(s) open. Obtain medical advice immediately if irritation occurs. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor immediately.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: This product is classified as flammable. There is a moderate risk of an explosion from this product if commercial quantities are involved in a fire. Fire-fighters should take care and appropriate precautions. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances. AEROSOL CANS may explode at temperatures approaching 50 °C. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
Extinguishing Media: Suitable extinguishing media are carbon dioxide, dry chemical, foam, water fog. Water fog or fine spray is preferred for large fires. Try to contain spills, minimise spillage entering drains or water courses.
Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. There is a danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.
Hazchem Code: 2YE

Section 6 - Accidental Release Measures

Accidental release: Accidental release: This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, clean up, rinsing to sewer and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
Storage: Store in a cool, well ventilated area, and make sure that surrounding electrical devices and switches are suitable. Check containers and valves periodically for leaks. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Store and use away from heat, sparks, open flame or any other ignition source. Do not pierce or burn, even after use. Empty containers retain product residue and can be hazardous.
If you keep more than 25 kg of flammable gases, you are probably required to license the premises or notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits	**TWA (mg/m^3)**	**STEL (mg/m^3)**

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

The following Australian Standards will provide general advice regarding safety clothing and equipment:
Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Ventilation: This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested. Wear appropriate respirator when ventilation is inadequate.
Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.
Skin Protection: Prevent skin contact by wearing impervious gloves. See below for suitable material types.
Protective Material Types: We suggest that protective clothing be made from the following materials: cotton, rubber, PVC.
Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

Section 9 - Physical and Chemical Properties

Appearance:	Clear liquid (aerosol dispensed)
Odour:	Solvent-like odour
Solubility (water):	Insoluble
Specific gravity:	0.58 (approximately)
pH:	Not available
% Volatiles:	Not available
Flash point:	-104 °C to -60 °C (propellant)
Flammability:	Highly flammable

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Conditions to Avoid: Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight and do not expose to temperatures exceeding 50 °C.
Incompatibilities: strong acids, strong bases, strong oxidising agents.
Fire Decomposition: Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed.
Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Toxicity Data

Butane	LC50 (Inhalation):	658 g/m^3/4 hours (rat)
Ethanol	LC50 (Inhalation):	2000 ppm/10 hours (rat)
	LD50 (Ingestion):	3450 mg/kg (mouse)
Cypermethrin	LC50 (Inhalation):	7889 mg/m^3/4hrs (rat)
	LD50 (Ingestion):	247 mg/kg (rat)
	LD50 (Skin):	1600 mg/kg (rat)
Imiprothrin	LD50 (Ingestion):	1600 mg/kg (rat)
	LD50 (Skin):	>2000 mg/kg
	LC50 (Inhalation):	>1,200 mg/m^3

Classification of Hazardous Ingredients

Ingredient	**Risk Phrases**

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

Section 12 - Ecological Information

Environment: Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.
Ecotoxicity: High toxicity to aquatic organisms.
Degradability: This product is biodegradable.
Mobility: This product is not likely to volatise rapidly into the air due to its low vapour pressure. It is not likely to move rapidly with surface or groundwater flows because of its low water solubility.

Section 13 - Disposal Considerations

Disposal: Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 http://www.chemclear.com.au/ and for help with the disposal of empty drums, contact DrumMuster http://www.drummuster.com.au/ where you will find contact details for your area.

Section 14 - Transport Information

ADG Code: This product is classified as a Dangerous Good by ADG.

UN No:	1950 2.1
DG Class:	None Allocated
Subsidiary Risk(s):	None Allocated
Pig Group:	None Allocated
Hazchem Code:	2YE
EPG:	2D1

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.
The following ingredients: cypermethrin, imiprothrin, are mentioned in the SUSMP.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

If there is any conflict between this SDS and the registered label, instructions on the label prevail.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

Please read all labels carefully before using product.