

Material Safety Data Sheet

AEROTHOR™ Extra Strength Crawling Insect Spray

Section 1 - IDENTIFICATION OF CHEMICAL PRODUCT AND COMPANY

Classified as Hazardous according to the criteria of NOHSC Australia.

Classified as Dangerous Goods according to the Australian Dangerous Goods (ADG) Code.

Ensystem Australasia Pty Ltd
Unit 3, The Junction Estate
4 – 6 Junction Street
AUBURN NSW 2144

Ensystem New Zealand Ltd
17C Corinthian Drive
Albany, Auckland 0752

Tel: 13 35 36

0800 ENSYSTEEX (0800 367 978)

APVMA Registration: 63593

ERMA Registration: HSR07108

Substance: Imiprothrin and cypermethrin are pyrethroid insecticides.

Trade Name: AEROTHOR™ Extra Strength Crawling Insect Spray.

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

Creation Date: October, 2008

Reviewed on: April 2012

Section 2 - HAZARDS IDENTIFICATION

Risk Phrases: R12 Extremely Flammable.
R65 Harmful: May cause lung damage if swallowed.

Safety Phrases: S16 Keep away from sources of ignition - No smoking.
S2 Keep out of reach of children.
S23 Do not breathe gas/fumes/vapour/spray (where applicable).
S24 Avoid contact with skin.
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

ADG Classification: Classified as Dangerous Goods by the criteria of the ADG Code.
UN No: 1950 2.1
DG Class: None Allocated
Subsidiary Risk(s): None Allocated
Pkg Group: None Allocated
Hazchem Code: 2Y
EPG: 2D1

Emergency Overview

Physical Description & colour: Clear, colourless liquid.
Odour: Mild solvent odour.
Major Health Hazards: If aspirated, may cause lung damage, repeated exposure may cause skin dryness.

Potential Health Effects

Inhalation:

Short term exposure: Available data indicates that this product is not harmful. Product may be mildly 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.

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.

Eye Contact:

Short term exposure: Available data shows that this product is not harmful. If sprayed directly in the eye, this product will irritate. If spraying is prolonged, it may cause damage through frostbite.

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.

Carcinogen Status:

NOHSC: No significant ingredient is classified as carcinogenic by NOHSC.

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)
Butane	106-97-8	<60%	Not set	Not set
Ethanol	64-17-5	30 - 60%	Not set	Not set
Propane	74-98-6	<60%	Not set	Not set
Solvent naphtha (petroleum), medium Aliphatic	64742-88-7	10-30%	Not set	Not set
Cypermethrin	52315-07-8	0.20%	Not set	Not set
Imiprothrin	72963-72-5	0.14%	Not set	Not set

This is a commercial product whose exact ratio of components may vary slightly.

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 MSDS with you when you call.

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

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 5 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.

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: 2Y

Section 6 - ACCIDENTAL RELEASE MEASURES

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.

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. If you keep more than 25kg 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

No special equipment is usually required under normal conditions of use. With prolonged, regular use, wear splash proof goggles and rubber or PVC gloves.

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**.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

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

Section 10 - STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or decompose under normal storage conditions.

Conditions to Avoid: This product should be kept in a cool place, preferably below 30°C. Containers should be kept dry. Keep containers and surrounding areas well ventilated. Keep away from sources of sparks or ignition. Any electrical equipment in the area of this product should be flame proofed.

Incompatibilities: Strong acids, strong bases, strong oxidising agents.

Fire Decomposition: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Hydrogen chloride gas, other compounds of chlorine. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, unconsciousness followed by coma & death.

Polymerisation: This product is unlikely to undergo polymerisation processes.

Section 11 - TOXICOLOGICAL INFORMATION

Toxicity Data

BUTANE	LC ₅₀ (Inhalation): 658 g/m ³ /4 hours (rat)
ETHANOL	LC ₅₀ (Inhalation): 2000 ppm/10 hours (rat) LD ₅₀ (Ingestion): 3450 mg/kg (mouse)
CYPERMETHRIN	LC ₅₀ (Inhalation): 7889 mg/m ³ /4hrs (rat) LD ₅₀ (Ingestion): 24750 ug/kg (mouse) LD ₅₀ (Skin): 1600 mg/kg (rat)
IMIPROTHRIN	LD ₅₀ (Ingestion): 1600 mg/kg (rat) LD ₅₀ (Skin): >2000 mg/kg LC ₅₀ (Inhalation): >1,200 mg/m ³

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.
- Persistence / Degradability:** This product is biodegradable.
- Mobility:** This product is not likely to volatilise 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: This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by some means. If neither of these options is suitable, consider controlled incineration, or landfill.

Section 14 - TRANSPORT INFORMATION



Classified as Dangerous Goods by the criteria of the ADG Code.

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

Section 15 - REGULATORY INFORMATION

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

Poison Schedule: A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

Section 16 - OTHER INFORMATION

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

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
CAS number	Chemical Abstracts Service Registry Number
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters
IARC	International Agency for Research on Cancer
NOHSC	National Occupational Health and Safety Commission
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this MSDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Ensystem so we can attempt to obtain additional information from our suppliers. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

ALWAYS READ THE PRODUCT LABEL BEFORE USE