



Trusted Aerosol Performance

SAFETY DATA SHEET

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Chemz Dead Azz! Fly spray Aerosol

Product Code: 9125 500ml

Uses: Household insecticide aerosol for flying and crawling insects

Company: Chemz Limited

Address: 80 Rangitane Place
Whakatu, Hastings

Telephone: +64 6 877 9690

Email: info@chemz.co.nz

Emergency Number 24 hr: 0800 764 766 (0800 POISON) National Poison Centre

Section 2 – HAZARDS IDENTIFICATION

Classification of the product

Considered a hazardous substance according to the Hazardous Substance (Minimum Degrees of Hazard) Regulations NZ.
Classified as a dangerous goods for transport purposes.

GHS Classifications:

Aerosol Category 1
Respiratory sensitisation Category 1
Skin sensitisation Category 1
Hazardous to the aquatic environment, acute Category 1
Hazardous to the aquatic environment, chronic Category 2
Hazardous to terrestrial invertebrates

HSNO Classifications:

2.1.2A
6.5A
6.5B
9.1A
9.1B
9.4A



Signal Words: Danger

Hazard Statements

H222 Extremely flammable aerosol.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H441 Very toxic to terrestrial invertebrates.

Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Components	CAS No.	% w/w
Naphtha petroleum, heavy, hydrotreated	64742-48-9	10-30%
Tetramethrin	7696-12-0	<1%
D-Phenothrin	51186-88-0	<1%
Permethrin	52645-53-1	<1%
Hydrocarbon propellant (LPG)	68476-85-7	>35%



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P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P233	Keep container tightly closed.
P251	Pressurised container: Do not pierce or burn, even after use.
P260	Do not breathe vapours/spray.
P261	Avoid breathing vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection, and face protection.
P284	In case of inadequate ventilation, wear respiratory protection.

Precautionary Statements, Response:

P302+P352	IF ON SKIN: wash with plenty of water and soap.
P304+P341	IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P333+P317	If skin irritation or rash occurs: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

Precautionary Statements, Storage:

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

P501	Dispose of contents/container in accordance with local regulations.
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4. FIRST AID MEASURES

If exposed, feeling unwell, or for advice, contact a **POISON CENTRE** (Phone New Zealand 0800 764766, 0800 POISON) or a doctor. Have product Label on hand when seeking advice.

Inhalation:

IF INHALED: If breathing is difficult, remove patient to fresh air and keep at rest in a comfortable position that is easy for breathing. Keep at rest until fully recovered. If patient experiences respiratory problems call **POISON CENTRE** or seek medical advice.

Skin Contact:

Direct contact may cause irritation in severe individuals. **IF SKIN CONTACT OCCURS**, wash skin with plenty of soap and running water. Remove any adhering solids from the surface of the skin. If irritation occurs seek medical advice.

Eye Contact:

IF IN EYES: wash out immediately with water for several minutes. Remove Contact Lenses if present and easy to do so and continue rinsing with water. In all cases of eye contamination, it is a sensible precaution to seek medical advice.

Ingestion:

Not considered a normal route of entry. **IF SWALLOWED:** Immediately call a **POISON CENTRE** or Doctor., Do NOT induce vomiting. Where there is a risk of vomiting, lean person forward or place on left side to avoid aspiration of product into Lungs. Obtain immediate medical attention.

Medical attention and special treatment:

Treat symptomatically and supportively. No specific Antidote



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5. FIRE FIGHTING MEASURES

General Fire Hazards: Pressurised Container, Extremely Flammable Aerosol

Specific Hazards: Heating or fire can cause expansion or decomposition of the material, which can lead to the containers exploding. Vapours may form an explosive mixture with air. Vapours can travel to a source of ignition and flash back. Contents may float and be re-ignited on surface water.

Further Advice: Burning may emit toxic fumes including those of Carbon Monoxide and Carbon Dioxide. Fire Fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion.

Suitable Extinguishing Media:

Fine water spray, Fog, normal foam. Use water spray to cool Fire-exposed containers. Do not discharge extinguishing waters into the aquatic environment. Do NOT use straight streams of water.

Protective Equipment: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots and in enclosed spaces, SCBA.

Fire Fighting Instruction: In the event of fire, cool containers with water spray to prevent vapour pressure build up. Move containers from Fire area if you can do so without risk. Runoff can cause environmental damage. Toxic gases may evolve when heated. Remain upwind and notify those downwind of hazard.

Hazchem Code: 2YE

6. ACCIDENTAL RELEASE MEASURES

Minor Spills: Clean up spills immediately. Remove all sources of ignition. Avoid breathing vapours and contact with skin and eyes. Wear protective clothing, impervious gloves, and safety glasses. If safe to do so, damaged cans should be placed in an outdoors container away from all ignition sources until pressure has dissipated. Undamaged cans should be gathered and stowed safely. Provide ventilation. Wash with water.

Major spills: Evacuate the spill area. Call the Fire Brigade. Remove all ignition sources. If safe to do so, prevent spillage from entering drains or water courses. If material enters drain, advise emergency services. Use absorbent material. Collect and seal in properly labelled containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Read Product Label before use. This product is highly flammable. Do not use near open flame, or sources of ignition. No smoking. Keep away from Children.

Beware: Deliberately sniffing or inhaling concentrated contents can be Harmful or Fatal. Avoid skin and eye contact and breathing in vapour, mists and aerosols. Ensure spray nozzle is always directed away from the user. May form flammable vapour mixtures with air. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke. Vapour may travel a considerable distance to source of ignition and flash back.

Conditions for safe storage: Store in cool place and out of direct sunlight. Store away from sources of heat or ignition. Do not expose to temperatures exceeding 50°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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Occupational Exposure Limits: No value assigned for this product however, Workplace Exposure Standard(s) (NZ WES) for constituent(s):

Material	TWA, mg/m ³	STEL, mg/m ³	Category/Notices
Naptha (petroleum), hydrotreated heavy	121	-	-
LPG (Butane, Propane)	1,800	-	-

Additional Information: Wash hands before eating, drinking and smoking.

Engineering controls: No Controls required when handling small quantities. Use with adequate ventilation.

Larger quantities: General Exhaust is adequate under normal operating conditions. Exhaust ventilation should be designed to prevent accumulation and recirculation in the workplace. Ventilation equipment and lighting should be explosion-resistant.

Protective Equipment:

In and industrial environment: Chemical resistant gloves, safety glasses or chemical goggles are recommended. Wash contaminated clothing prior to reuse.

In case of Inadequate ventilation, wear respiratory protection. If TWA is exceeded, wear an approved respirator with a type A filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Thin, clear liquid in the form of an aerosol spray
pH:	Not applicable
Boiling Point °C:	Not available
Melting Point °C:	Not applicable
Solubility:	Not soluble in water. Soluble in common organic solvents.
Specific Gravity:	0.82 @20°C
Vapour Density (air=1):	>1
Vapour Pressure (20 °C):	300-600kPa
Flash Point (°C):	<0 °C (Hydrocarbon propellant)
Explosion Limits (%) v/v:	LEL 1.2% UEL 9.5%
Auto ignition Temperature (°C):	431 °C

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use. Not Reactive. Avoid Oxidizers. Avoid elevated temperatures
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11. TOXICOLOGICAL INFORMATION

Beware: Deliberately sniffing or inhaling concentrated contents can be harmful or fatal.

Basis for Assessment:	Information given is based on product testing, and/or similar products, and/or components.
Acute Oral Toxicity:	LD50 estimated to be > 5,000 mg/kg (based on component mixture, excluding propellant).
Acute Dermal Toxicity:	LD50 estimated to be > 5,000 mg/kg (based on component mixture, excluding propellant).



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Acute Inhalation Toxicity: LC50 estimated to be > 20 mg/L, Rat 4 hour (based on component mixture).

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Skin Irritation: May cause slight skin irritation. Avoid contact with skin. Prolonged exposure may result in irritation, rash, dermatitis, and sensitisation.

Eye Irritation: May cause eye irritation. Avoid contact with eyes.

Inhalation: May cause drowsiness or dizziness. Inhalation will cause narcotic effects.

Respiratory Irritation: Inhalation of vapours or mists may cause irritation to the respiratory system. Over exposure may result in upper respiratory tract irritation, nausea, and headache. At high levels; dizziness, breathing difficulties, and at very high levels, anaesthesia, cardiac arrhythmias, pulmonary oedema and unconsciousness.

Ingestion: Exposure considered unlikely, due to product form as an aerosol. Under normal conditions of use, ingestion is considered a highly unlikely exposure route.

Mutagenicity: Not expected to be mutagenic.

Carcinogenicity: Not expected to be carcinogenic.

Reproductive toxicity: Not expected to be toxic.

Specific Target Organ Toxicity: Harmful to human target organs or systems (Single exposure).

STOT (Narcotic): Prolonged inhalation of vapours may be narcotic and cause drowsiness or dizziness.

Repeated Dose Toxicity: Repeated, prolonged exposure by inhalation may cause damage to organs.

Additional Information: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

Long Term Effects: No information available for the product.

12. ECOLOGICAL INFORMATION

Acute Toxicity – Fish

LC50, 96 hour: 0.0064mg/L *Onchoryhncus mykiss* (Rainbow Trout) – Tetramethrin.

LC50, 96 hour: 0.0027mg/L *Onchoryhncus mykiss* (Rainbow Trout) – d-Phenothrin.

LC50, 96 hour: 0.1µg/L *Onchoryhncus mykiss* (Rainbow Trout) – Permethrin.

Chronic Toxicity – Fish

NOEC 1.1mg/L *Onchoryhncus mykiss* (Rainbow Trout) – d-Phenothrin.

NOAEL 0.10ppb *Cyprinodon variegatus* (Sheepshead Minnow) – Permethrin.



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Acute Toxicity – Aquatic Invertebrates

EC50, 48 hour: 0.045mg/L Daphnia magna – Tetramethrin
LC50, 48 hour: 0.0043mg/L Daphnia magna – d-Phenothrin.
LC50, 48 hour: 0.55µg/L Ceriodaphnia dubia (Water Flea) – Permethrin.

Chronic Toxicity – Aquatic Invertebrates

NOEC 0.05mg/L Daphnia magna – Tetramethrin.
NOEC 0.47mg/L Daphnia magna – d-Phenothrin.
NOEC 0.039ppb Daphnia magna – Permethrin.

Persistence & Degradability

Tetramethrin – Not readily biodegradable (Soil DT₅₀ = 16 days)
d-Phenothrin – Not readily biodegradable
Permethrin – Not readily biodegradable (Soil DT₅₀ = 37 days)

Bioaccumulative Potential

Tetramethrin – BCF (aquatic species) = 827
d-Phenothrin – BCF (aquatic species) = 730
Permethrin – BCF (aquatic species) = 560

Environment

Environmental effects of the compound are extremely unlikely, due to packaging in the form of an aerosol. Ensure appropriate measures are taken to prevent this product from entering the environment through wastewater.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Refer to Waste Management Authority. Advise flammable nature. Do not puncture or burn can when empty; contents are under pressure. If aerosol can develops a leak, allow to fully discharge before disposal. Normally suitable for disposal at approved land waste site.

14. TRANSPORT INFORMATION

Labels Required:

Road and Rail Transport:

Classified as a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land.

UN No: 1950

Class-primary: 2.1 Flammable Gas

Proper Shipping Name: AEROSOLS

Hazchem Code: 2YE





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Marine Transport:

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No: 1950

Class-primary 2.1 Flammable Gas

Proper Shipping Name: AEROSOLS

Air Transport:

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No: 1950

Class-primary: 2.1 Flammable Gas

Proper Shipping Name: AEROSOLS, FLAMMABLE

15. REGULATORY INFORMATION

NZIOC (New Zealand Inventory of Chemicals): All components of this product are listed.

SDS Regulations:

This Safety Data Sheet was prepared in accordance with the EPA Hazardous Substances (Safety Data Sheets) Notice July 2017.

EPA Approval Number:

HSR000264 Flammable aerosol containing 0.5g/l d-phenothrin, 1.0 g/l permethrin and 2.9g/l tetramethrin

16. OTHER INFORMATION

Reason(s) for Issue:

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Chemz Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact their Chemz representative or Chemz Limited at the contact details on Page 1. Chemz Limited's responsibility for the material as sold is subject to the terms and conditions of sale.

Additional Information:

Personal Protective Equipment Guidelines: The recommendation for protective equipment contained is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Health Effects from Exposure: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.



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Abbreviations:

BCF	Bioconcentration factor (L/kg)
CAS	Chemical Abstract Service number
EMS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA	Environmental Protection Agency
GHS	Globally Harmonized System
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
LEL	Lower Explosion Limit
mg/m ³	Milligrams per Cubic Metre
NZIoC	New Zealand Inventory of Chemicals
N.O.S.	Not otherwise specified
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
TLV	Threshold Limit Value
TWA	Time Weighted Average
UEL	Upper Explosion Limit