

Material Safety Data Sheet

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: BV2 Flying Insect Killer Aerosol

Uses: Household insecticide aerosol for flying and crawling insects.

Company Integra Industries Ltd

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Emergency Phone Number: 0800 764 766

National Poison Centre: 0800 764 766 (0800 POISON)

Section 2 – HAZARDS IDENTIFICATION

Classified as hazardous according to the *Hazardous Substances (Classification) Regulations 2001*.

HSNO Classifications:

2.1.2A Flammable aerosol
6.5A Respiratory sensitisers
6.5B Contact sensitisers
9.1A Very ecotoxic in the aquatic environment (All)
9.4A Very ecotoxic to terrestrial invertebrates



Signal Words: Danger

Hazard Statements

H222 Extremely flammable aerosol.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H400 Very toxic to aquatic life.
H441 Very toxic to terrestrial invertebrates.

Precaution Statements

P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat and open flames/hot surfaces. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurised container: Do not pierce or burn, even after use.
P261 Avoid breathing vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection.
P285 In case of inadequate ventilation wear respiratory protection.

Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
Naphtha (petroleum), hydrotreated heavy	64742-48-9	10 - 30
Tetramethrin	7696-12-0	< 1
d-Phenothrin	26002-80-2	< 1
Permethrin	52645-53-1	< 1
Hydrocarbon propellant (Propane, Butane)	106-97-8, 74-98-6	> 60
Other ingredients determined to not be hazardous	-	to 100%

Section 4 – FIRST AID MEASURES

If medical advice is needed, have product container or label at hand.

If exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Inhalation:	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Ingestion:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Where there is risk of vomiting, lean person forward or place on left side to avoid aspiration of product into lungs. Obtain immediate medical attention.
Skin contact:	Direct contact may cause irritation in sensitive individuals. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.
Notes to physician:	Treat symptomatically and supportively. Risk of aspiration to lungs. No specific antidote. Potential for chemical pneumonitis. Consider gastric lavage or administration of activated charcoal.

Section 5 – FIRE-FIGHTING MEASURES

Specific hazards:	Containers can build up pressure if exposed to heat and/or fire and may explode. Vapours may form an explosive mixture with air. Vapours can travel to a source of ignition and flash back. Will float and can be re-ignited on surface water. Will burn if involved in a fire.
Further advice:	On 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. Use water spray to keep fire-exposed containers cool.
Extinguishing media:	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do not discharge extinguishing waters into the aquatic environment. Do NOT use straight streams of water.
Hazchem Code:	2YE

Section 6 – ACCIDENTAL RELEASE MEASURES

Minor spills:	Clean up immediately. Remove all sources of ignition. If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely. Collect spillage. Provide ventilation. Wash with soap and water.
Major spills:	Evacuate the spill area. Call the Fire Brigade. Remove all sources of ignition. If safe to do so, prevent spillage from entering drains or water courses. If material enters drains, advise emergency services. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers for disposal.

Section 7 – HANDLING AND STORAGE

Handling Precautions:	Read product label before use. This product is highly flammable. Do not use near open flame, or sources of ignition. No smoking. Pressurised container: Do not pierce or burn, even after use.
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Use outdoors or in well-ventilated area. Wear personal protective equipment – gloves and protective eyewear. Wash hands with soap and water after handling. Wash protective clothing before reuse and separate to household laundry.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Store in a well ventilated, cool, dry place. Keep away from heat, sparks, and flame. Store locked up.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: No value assigned for this specific material. However, exposure standards for constituents;

Material	TWA, mg/m ³	STEL, mg/m ³
Naphtha (petroleum), hydrotreated heavy	1200	-
Butane	1900	-
Propane	Simple Asphyxiant	-

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. Ventilation equipment should be explosion-resistant.

Protective Equipment: Gloves, safety glasses or chemical goggles are recommended in an industrial environment. If TWA is exceeded, wear an approved respirator with a type A filter.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Transparent volatile liquid..

pH: Not applicable.

Vapour Density: > 1 (Air =1)

Vapour Pressure, kPa: 300 - 600

Boiling Point, °C: Not applicable.

Specific Gravity: Not applicable.

Flash Point, °C: < 0

Explosion Limit, % v/v: LEL 1.2% UEL 9.5%

Autoignition Temp, °C: Not applicable.

Solubility: Not soluble in water. Soluble in common organic solvents.

Section 10 – STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use and storage. Not reactive. Avoid oxidisers. Avoid elevated temperatures.

Section 11 – TOXICOLOGICAL INFORMATION

Basis for Assessment: Information given is based on product testing, and/or similar products, and/or components.

Acute Oral Toxicity: Low toxicity: LD50 calculated to be > 5000 mg/kg, Rat. May be harmful if swallowed.

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis.

Acute Dermal Toxicity: Low toxicity: LD50 estimated to be > 5000 mg/kg, Rabbit.

Acute Inhalation Toxicity: High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea.

Skin Irritation: May cause mild skin irritation. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

Eye Irritation: Vapours may be irritating to the eye.

Respiratory Irritation: Inhalation of vapours or mists may cause irritation to the respiratory system.

Sensitisation: Contains ingredients which are contact and respiratory sensitisers.

Repeated Dose Toxicity:	Central nervous system: repeated exposure affects the nervous system. May cause damage to organs. Prolonged contact with product may result in irritant contact dermatitis.
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.

Section 12 – ECOTOXICITY INFORMATION

Ecotoxicity:	Very toxic in aquatic environments. Very toxic to bees, fish and aquatic invertebrates.
Mobility:	Floats on water. Adsorbs to soil and has low mobility.
Persistence/degradability:	Inherently biodegradable. Oxidises rapidly by photo-chemical reactions in air.
Bioaccumulation:	Has the potential to bioaccumulate. Product is expected to biodegrade.

Section 13 – DISPOSAL CONSIDERATIONS

Material Disposal:	Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water. Incineration is suggested.
Container Disposal:	Pressurised container: Do not pierce or burn, even after use. Recycle empty container if possible. Large quantities should be degassed by an aerosol recycler. Do not dispose of large quantities of pressurised aerosols in landfills. Disposal should be in accordance with applicable laws and regulations.

Section 14 – TRANSPORT INFORMATION

Transport:	Classified as a dangerous goods according to the NZ Land Transport Rule for road and rail, IMDG for sea, IATA for air. Class 2.1 should not be loaded on the same vehicle as Classes 1, 3 (where both are in bulk), 4, 5, and 7. They may be loaded with Classes 3, 6, 8, 9, foodstuffs and foodstuff empties.
Proper Shipping Name:	Aerosols
UN Number:	1950
Dangerous Goods Class:	2.1
Subsidiary Risk:	Not applicable
Packing Group:	Not applicable

Section 15 – REGULATORY INFORMATION

EPA Approval Number:	HSR000264 (Flammable aerosol containing 0.5 g/litre d-phenothrin, 1.0 g/litre permethrin and 2.9 g/litre tetramethrin).
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Section 16 – OTHER INFORMATION

This MSDS summarises our best knowledge of the health and safety hazard information. Since we cannot control the conditions under which the product may be used, each user must review this MSDS in the context of how the user intends to use the product.

End of msds.