

# Safety Data Sheet

## Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	<b>BV2 Surface Insecticide Spray Aerosol</b>
<b>Uses</b>	Residual insecticide aerosol for crawling insects.
<b>Company</b>	Integra Industries Ltd
<b>Address</b>	21 Glasgow St Dunedin, N.Z.
<b>Telephone</b>	+64 3 455 6805
<b>Email</b>	<a href="mailto:info@Integraindustries.co.nz">info@Integraindustries.co.nz</a>
<b>National Poison Centre</b>	0800 764 766 (0800 POISON)

## Section 2 – HAZARDS IDENTIFICATION

Classified as hazardous according to the *Hazardous Substance (Minimum Degrees of Hazard) Notice 2017*.

### HSNO Classifications:

2.1.2A	Flammable aerosol
6.3 B	Mildly irritating to the skin
6.4 A	Irritating to the eye
6.9B (oral)	Harmful to human target organs or systems
9.1 A	Very ecotoxic in the aquatic environment (crustacean)
9.2 B	Ecotoxic in the soil environment
9.3 A	Very ecotoxic to terrestrial vertebrates
9.4 A	Very ecotoxic to terrestrial invertebrates



**Signal Words:** Danger

### Hazard Statement Codes

H225	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H320	Causes eye irritation.
H371	May cause damage to organs if swallowed or inhaled.
H410	Very toxic to aquatic life with long lasting effects.
H422	Toxic to the soil environment.
H431	Very toxic to terrestrial vertebrates.
H441	Very toxic to terrestrial invertebrates.

## Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
2-Propanol	67-63-0	30 - 60
Naphtha (Petroleum), Hydrotreated Heavy	64742-48-9	10 - 30
LPG Propellant (Liquefied petroleum gas)	68476-85-7	30 - 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 CENTRE or doctor.

<b>Eye contact</b>	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.
<b>Inhalation</b>	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 CENTRE or doctor.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a POISON CENTRE or doctor. 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.
<b>Skin contact</b>	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.
<b>Notes to physician</b>	Treat symptomatically and supportively. Risk of aspiration to lungs. Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal.

## Section 5 – FIRE-FIGHTING MEASURES

<b>General fire hazards</b>	Flammable aerosol.
<b>Specific hazards</b>	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.
<b>Further advice</b>	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.
<b>Extinguishing media</b>	Powder. Foam. Water. Water spray. Carbon dioxide (CO <sub>2</sub> ). Use water spray to cool fire-exposed containers. Do not discharge extinguishing waters into the aquatic environment.  Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.
<b>Protective equipment</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Fire fighting instructions</b>	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.
<b>Specific methods</b>	Use standard fire fighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.
<b>Hazchem Code</b>	2YE

## Section 6 – ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Non-emergency personnel</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Do not touch or walk through spilled material. Avoid breathing gas. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>For emergency responders</b>	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
<b>Environmental precautions</b>	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
<b>Methods for cleaning up</b>	Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Collect spillage. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

**Other issues relating to spills** Clean up in accordance with all applicable regulations.

## Section 7 – HANDLING AND STORAGE

<b>Handling Precautions</b>	<p>Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded.</p> <p>Avoid breathing gas. Avoid contact with skin. Avoid contact with eyes. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.</p>
<b>Conditions for safe storage</b>	Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition.

## Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Limits</b>	No value assigned for this specific material. However, exposure standards for constituents;												
	<table border="1"><thead><tr><th>Material</th><th>TWA, mg/m<sup>3</sup></th><th>STEL, mg/m<sup>3</sup></th></tr></thead><tbody><tr><td>Naphtha (Petroleum), Hydrotreated Heavy</td><td>1,200</td><td>-</td></tr><tr><td>2-Propanol</td><td>983</td><td>1,230</td></tr><tr><td>LPG Propellant (Liquefied petroleum gas)</td><td>1,800</td><td>-</td></tr></tbody></table>	Material	TWA, mg/m <sup>3</sup>	STEL, mg/m <sup>3</sup>	Naphtha (Petroleum), Hydrotreated Heavy	1,200	-	2-Propanol	983	1,230	LPG Propellant (Liquefied petroleum gas)	1,800	-
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LPG Propellant (Liquefied petroleum gas)	1,800	-											
<b>Additional Information</b>	Wash hands before eating, drinking and smoking. Avoid breathing vapours/spray. In case of inadequate ventilation, wear respiratory protection.												
<b>Engineering Controls</b>	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.												
<b>Protective Equipment</b>	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

<b>Physical state</b>	Clear, colourless volatile liquid with a mild odour.
<b>pH</b>	Not applicable.
<b>Vapour Density</b>	> 1 (Air =1)
<b>Vapour Pressure, kPa</b>	300 - 600
<b>Boiling Point, °C</b>	Not applicable.
<b>Melting Point, °C</b>	Not applicable.
<b>Specific Gravity</b>	Not applicable.
<b>Flash Point, °C</b>	< 0
<b>Explosion Limit, % v/v</b>	LEL 1.2% UEL 9.5%
<b>Autoignition Temp, °C</b>	Not applicable.
<b>Solubility</b>	Partially miscible in water. Soluble in common organic solvents.

## Section 10 – STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions of use and storage. Not reactive. Avoid oxidisers. Avoid elevated temperatures.
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## Section 11 – TOXICOLOGICAL INFORMATION

<b>Basis for Assessment</b>	Information given is based on product testing, and/or similar products, and/or components.
<b>Acute Oral Toxicity</b>	Low toxicity: LD50 calculated to be > 5000 mg/kg, Rat (based on component mixture).
<b>Acute Dermal Toxicity</b>	Low toxicity: LD50 estimated to be > 5000 mg/kg, Rabbit (based on component mixture).

<b>Acute Inhalation Toxicity</b>	High concentrations of vapour may cause central nervous system depression resulting in headaches, dizziness and nausea.
<b>Skin Irritation</b>	May cause mild skin irritation. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.
<b>Eye Irritation</b>	Vapours may be irritating to the eye.
<b>Respiratory Irritation</b>	Inhalation of vapours or mists may cause irritation to the respiratory system.
<b>Sensitisation</b>	Not expected to be a sensitiser.
<b>Repeated Dose Toxicity</b>	Central nervous system: repeated exposure affects the nervous system. May cause damage to organs. Prolonged contact with product may result in irritant contact dermatitis.
<b>Additional Information</b>	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

<b>Ecotoxicity</b>	Very toxic in aquatic and soil environments. Harmful with long lasting effects.
<b>Mobility</b>	May float on water. Adsorbs to soil and has low mobility.
<b>Persistence/degradability</b>	More volatile components expected to degrade in air.
<b>Bioaccumulation</b>	Has the potential to bioaccumulate.

## Section 13 – DISPOSAL CONSIDERATIONS

<b>Material Disposal</b>	Product wastes are considered ecotoxic and should be disposed of in accordance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.  Large quantities should be degassed by an aerosol recycler. Do not dispose of large quantities of pressurised aerosols in landfills. Incineration by an authorised company is suggested.
<b>Container Disposal:</b>	Recycle empty container if possible. Product containers are also considered wastes of the same class of the contents and should be disposed of in accordance with applicable regulations.

## Section 14 – TRANSPORT INFORMATION

<b>Transport</b>	Classified as a dangerous goods according to the NZ Land Transport Rule for road and rail, IMDG for sea, IATA for air.
<b>Proper Shipping Name</b>	Aerosols
<b>UN Number</b>	1950
<b>Dangerous Goods Class</b>	2.1
<b>Subsidiary Risk</b>	Not Applicable
<b>Packing Group</b>	Not applicable
<b>Marine Pollutant</b>	Marine pollutant
<b>EMS Number</b>	F-D, SU

## Section 15 – REGULATORY INFORMATION

### Regulatory information specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard.

**Group Standard** HSR002515 Aerosols (Flammable) Group Standard

## 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.