BV2 Surface Insecticide
Safety Data Sheet

1. Identification of Substance & Company

Product

Product name	BV2 Surface Insecticide
Product code	NA
HSNO approval	HSR101153
Approval description	BV2 Surface Spray Insecticide
UN number	1950
Proper Shipping Name	Aerosols
DG class	2.1
Packaging group	NA
Hazchem code	2YE
Uses	Residual insecticide aerosol for Ants.

Company Details

Company	Integra Industries Ltd
Address	21A Grosvenor St , South Dunedin
Telephone	0800 667 843
Website	www.integraindustries.co.nz

Emergency Telephone Number: 0800 764 766

2. Hazard Identification

GHS classification of substance/mixture

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

GHS 7 Classes	Hazard Statements
Aerosol Category 1	H225 - Highly flammable liquid and vapor
Skin irritation Category 2	H317 - May cause an allergic skin reaction.
Eye irritation Category 2	H320 - Causes eye irritation.
STOT – single exposure Category 2	H371 - May cause damage to organs
STOT – repeated exposure Category 2	H410 - Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment acute Category 1	H422 - Toxic to the soil environment.
Hazardous to the aquatic environment chronic Category 1	H431 - Very toxic to terrestrial vertebrates.
Hazardous to soil organisms	H441 - Very toxic to terrestrial invertebrates.
Hazardous to terrestrial vertebrates	H222 - Extremely flammable aerosol
	H315 - Causes skin irritation
	H319 - Causes serious eye irritation
	H371 - May cause damage to organs
	H373 - May causes damage to organs through prolonged or repeated exposure
	H400 - Very toxic to aquatic life
	H410 - Very toxic to aquatic life with long lasting effects

SYMBOLS

DANGER

Other Classifications

There are no other classifications that are known to apply

Precautionary Statements

Prevention
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.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof [electrical/ventilating/lighting/.../] equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P251 - Do not pierce or burn, even after use.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P264+P265 - Wash hands thoroughly after handling. Do not touch eyes.
P270 - Do not eat, drink or smoke when using this product.
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/face protection/hearing protection.

Response
P302+P352 - IF ON SKIN: wash with plenty of water
P303+P361+P353 - IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P308+P316 - IF exposed or concerned: Get emergency medical help immediately.
P319 - Get medical help if you feel unwell.
P321 - Specific treatment (see on the label).
P332+P317 - If skin irritation occurs: Get medical help.
P333+P317 - If skin irritation or rash occurs: Get medical help.
P337+P317 - If eye irritation persists: Get medical help.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use extinguisher to extinguish.
P391 - Collect spillage.

Storage
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Disposal
P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

3. Composition / Information on Ingredients

Component	CAS/ Identification	Concentration
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%

This is a commercial product whose exact ratio of components may vary slightly. Trace quantities of impurities are also likely.

4. First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).
Recommended first aid facilities — Ready access to running water is recommended. Accessible eyewash is recommended.

Exposure

Swallowed	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.
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.
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.
Inhaled	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.

Advice to Doctor

Treat symptomatically and supportively. Risk of aspiration to lungs. Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal.

5. Firefighting Measures

General fire hazards:	Flammable aerosol.
Suitable Extinguishing Media:	Powder. Foam. Water. Water spray. Carbon dioxide (CO2). Use water spray to cool fire-exposed containers. Do not discharge extinguishing waters into the aquatic environment.
Unsuitable Media:	Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.
Special hazards arising from the substrate or mixture:	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.
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.
Firefighting:	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.
Protective equipment:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Specific methods:	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.
Hazchem code	2YE

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Non-emergency personnel	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.Wear breathing apparatus plus protective gloves.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
Environmental precautions	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.

Methods for cleaning up	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.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

7. Storage and Handling

Handling	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. 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.
Conditions for safe storage	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 ofignition.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m3 for respirable particulates and 10mg/m3 for inhalable particulates when limits have not otherwise been established.

NZ Workplace Exposure Standards	Ingredient	WES-TWA	WES-STEL
	Naphtha (Petroleum), Hydrotreated Heavy	1,200mg/m3	-
	2-Propanol	983 mg/m3	1,230mg/m3
	LPG Propellant (Liquefied petroleum gas)	1,800mg/m3	-

Additional Information

Wash hands before eating, drinking and smoking. Avoid breathing vapours/spray. In case of inadequate ventilation, wear respiratory protection.

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.

Personal Protective Equipment

Eye and Face

- Safety glasses with side shields.
- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

Skin

See Hand protection below

Hands/ Feet

NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible

skin contact.
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. No special equipment needed when handling small quantities.
- OTHERWISE:
- For potentially moderate exposures:
- Wear general protective gloves, eg. light weight rubber gloves. For potentially heavy exposures:
- Wear chemical protective gloves, eg. PVC. and safety footwear.

Body See Other protection below.

Other protection No special equipment needed when handling small quantities.
OTHERWISE:
- Overalls.
- Skin cleansing cream. Eyewash unit.
- The clothing worn by process operators insulated from earth may develop static charges far higher (up to 100 times) than the minimum ignition energies for various flammable gas-air mixtures. This holds true for a wide range of clothing materials including cotton.
- Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost.

BRETHERICK: Handbook of Reactive Chemical Hazards.

Respiratory If TWA is exceeded, wear an approved respirator with a type A filter.

Recommended materials

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:
"Forsberg Clothing Performance Index".
The effect(s) of the following substance(s) are taken into account in the
computer-generated selection:
CLEANER DISINFECTANT MEDICSHEILD HOSPTIAL GRADE AEROSOL 500ML

Material	CPI
NEOPRENE	A
NITRILE	A
NITRILE+PVC	A
PE/EVAL/PE	A
PVC	B
NAT+NEOPR+NITRILE	C
NATURAL RUBBER	C
NATURAL+NEOPRENE	C

A: Best Selection
B: Satisfactory; may degrade after 4 hours continuous immersion
C: Poor to Dangerous Choice for other than short term immersion
NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -
*Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Respiratory protection

Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)
Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	Air-line*	AX-2	AX-PAPR-2 ^
up to 20 x ES	-	AX-3	-
20+ x ES	-	Air-line**	-

*- Continuous-flow; ** - Continuous-flow or positive pressure demand
^ - Full-face
A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.

The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance	Clear, colourless volatile liquid with a mild odour.
Odour	Not available
Odour Threshold	Not available
pH	Not applicable
Freezing/Melting Point	No data
Flammability	Highly Flammable
Flashpoint	<0
Upper Explosive limit (%)	9.5
Lower Explosive limit (%)	1.2
Vapour pressure (kPa)	300-600
Vapour density	>1 (Air=1)
Specific gravity/density	~1
Solubility	Partially miscible in water. Soluble in common organic solvents.
Partition coefficient	No data
Auto-ignition temperature	No data
Decomposition temperature	No data
Viscosity	No data
Particle Characteristics	No data

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions of use and storage. Not reactive. Avoid oxidisers. Avoid elevated temperatures.
Reactivity	See section 7
Conditions to be avoided	See section 7
Incompatible groups	See section 7
Possibility of hazardous reactions	See section 7
Hazardous decomposition products	See section 5
Hazardous Polymerization	None known.

11. Toxicological Information

Summary

Information given is based on product testing, and/or similar products, and/or components.

Supporting Data

Acute	**Oral**	Low toxicity: LD50 calculated to be > 5000 mg/kg, Rat (based on component mixture).
	Dermal	Low toxicity: LD50 estimated to be > 5000 mg/kg, Rabbit (based on component mixture).
	Inhaled	Inhalation of vapours or mists may cause irritation to the respiratory system.
	Eye	Vapours may be irritating to the eye.
	Skin	May cause mild skin irritation. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.
Chronic	**Sensitisation**	Not expected to be a sensitiser.
	Mutagenicity	Based on available data, the classification criteria are not met.
	Carcinogenicity	Based on available data, the classification criteria are not met.
	Reproductive / Developmental	Based on available data, the classification criteria are not met.
	Sytemic	No ingredient present at concentrations > 1% is considered a target organ toxicant.
	Aggravation of existing condition	None known.
	STOT – Single Exposure	Based on available data, the classification criteria are not met.
	STOT – Repeated	Central nervous system: repeated exposure affects the nervous system. May cause

Exposure	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.

12. Ecological Data

Summary

This mixture is not considered ecotoxic however in all cases prevent run-off to drains, sewers and waterways.

Supporting Data

Ecotoxicity	Very toxic in aquatic and soil environments. Harmful with long lasting effects.
Bioaccumulation	Has the potential to bioaccumulate.
Mobility	May float on water. Adsorbs to soil and has low mobility.
Degradability	More volatile components expected to degrade in air.
Soil	No information available.
Terrestrial vertebrate	No information available.
Terrestrial invertebrate	No information available.
Biocidal	No information available.
Environmental Protection	No information available.

13. Disposal Considerations

Restrictions	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
Material disposal	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.
Contaminated packaging	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.

14. Transport Information

Classified as a dangerous goods according to the NZ Land Transport Rule for road and rail, IMDG for sea, IATA for air.

UN number:	NA	**Proper shipping name:**	NA
Class(es)	NA	**Packing group:**	NA
Precautions:	NA	**Hazchem code:**	NA

IMDG

UN number:	1950	**Proper shipping name:**	Aerosols
Class(es)	2.1	**Packing group:**	NA
Precautions:	NA	**EmS:**	F-D, SU

IATA

UN number:	NA	**Proper shipping name:**	NA
Class(es)	NA	**Packing group:**	NA
Precautions:	NA	**ERG Guide**	NA

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002515 Aerosols (Flammable) Group Standard. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

Specific Controls

Key workplace requirements are:

SDS	To be available within 10 minutes in workplaces storing any quantity.
Inventory	An inventory of all hazardous substances must be prepared and maintained.
Packaging	All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied
Labeling	Must comply with the Hazardous Substances (Labelling) Notice 2017.
Emergency plan	Required if > 1000L is stored.
Certified handler	Not required.
Tracking	Not required.
Bunding & secondary containment	Required if > 1000L is stored.
Signage	Required if > 1000L is stored.
Location compliance certificate	Not required.
Flammable zone	Not required.
Fire Extinguisher	Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information

References

Other References: Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice. Standard for the Uniform Scheduling of Medicines and Poisons.
Australian Code for the Transport of Dangerous Goods by Road & Rail.
Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Workplace exposure standards for airborne contaminants.
Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH). Globally Harmonised System of classification and labelling of chemicals.

Review

Date	Reason for review
1 April 2025	Phone number updated

Disclaimer

This SDS was prepared by INTEGRA INDUSTRIES LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright INTEGRA INDUSTRIES LTD and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email sales@integraindustries.co.nz or phone: +64 3 455 6805.