

MATERIAL SAFETY DATA SHEET

Premise® Foam Insecticide

Date of Issue: April 19th, 2007

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Premise® Foam Insecticide
Other names: None
Product code: 5711982 (510 g)
Chemical group: Guanidine
Recommended use: Ready to use foam for application to termite nests and workings by professional pest control operators
Formulation: Aerosol
Supplier: Bayer Environmental Science – A Business Group of Bayer CropScience Pty Ltd
ABN 87 000 226 022
Address: 391 - 393 Tooronga Road, East Hawthorn
Victoria 3123, Australia
Telephone: (03) 9248 6888
Facsimile: (03) 9248 6800
Website: www.bayercropscience.com.au
Contact: Technical Manager (03) 9248 6888
Emergency Telephone Number: 1800 033 111 – Orica SH&E Shared Services

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE – DANGEROUS GOOD

Hazard designation: Non-hazardous (National Occupational Health and Safety Commission - NOHSC)
Risk phrases: Not applicable
Safety phrases: See sections 4, 5, 6, 7, 8, 9, 13
ADG classification: Dangerous Goods for transport by road and rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail – COMPRESSED GAS N.O.S. Class 2.2, Packing Group III, UN1956
SUSDP classification: Exempt

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Imidacloprid	[138261-41-3]	0.5
Isobutane (containing no butadiene)	[75-28-5]	75.00
Hydrogen peroxide	[7722-84-1]	0.001
Other ingredients (non-hazardous)		924.5

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4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

- Inhalation:** Respirable aerosols cannot be generated with this product in any appreciable concentration. There should therefore be no potential for inhalation of the product.
- Skin contact:** If sprayed on skin wash thoroughly with soap and water.
- Eye contact:** Hold eyes open and wash continuously with clean water for 15 minutes.
- Ingestion:** If foam is ingested give patient water to dilute. Never give anything by mouth to an unconscious person.
- First Aid Facilities:** Provide washing facilities in the workplace.
- Symptoms:** Symptoms of intoxication that may arise if the product is mishandled include nausea, abdominal pain and diarrhoea. Muscular cramps, apathetic state, depressed muscular tone, respiratory disturbance and trembling are also possible in severe cases of poisoning.
- Medical attention:** Treatment
Basic aid, decontamination, symptomatic treatment.
Note for physicians
Check blood pressure and pulse rate frequently since bradycardia and hypotension are possible. Provide supportive measures for respiratory and cardiac function. Give artificial respiration if signs of paralysis appear. Additional therapeutic measures involve elimination of the substance from the body or acceleration of its excretion (gastro-lavage, saline laxatives). No specific antidote known.
Contraindications: Absorption promoting agents such as alcoholic beverages and milk. Oils and fats are of no special significance due to the low liposolubility of the active ingredient.

5. FIRE FIGHTING MEASURES

- Extinguishing media:** Water fog, carbon dioxide, dry chemical, foam
- Hazards from combustion products:** In the event of fire, the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides must be anticipated. Do not breathe fumes.
- Precautions for fire fighters:** Fight fire in the early stages if safe to do so. Wear respiratory protection.
Well ventilated areas: wear full face mask with combination filter eg., ABEK-P2 (offers no protection from carbon monoxide).
Enclosed premises: wear respirator with independent air supply.
Contain firefighting water. If at all possible do not allow firefighting water to enter drains and waterways.

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6. ACCIDENTAL RELEASE MEASURES

Small-scale spills: Spill from the pressurised can is unlikely. If product is accidentally released from the can then contain and dispose of foam by placing in a bag and placing in the garbage.

Large-scale spills: Prevent spill from spreading or entering waterways or drains. Take up with absorbent material such as sawdust, peat or binding agent for chemicals. Fill material along with any contaminated soil etc. into sealable containers. Clean affected area with an aqueous detergent and a small amount of water. On completion of clean-up remove and wash all protective clothing and equipment with detergent and water. Any heavily contaminated clothing should be placed in a plastic garbage bag and placed in a sealable drum. Do not smoke, eat or drink during clean-up operation.

7. HANDLING AND STORAGE

Handling: Keep out of reach of children.

Storage: Store at normal room temperature. Keep away from naked flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards: NOHSC exposure standards have not been assigned for imidacloprid.
Butane: TWA (mg/cubic metre) STEL (mg/cubic metre) 1900.
This exposure standard is for an eight hour day. Use of this can is likely to be for short periods only and there should be no exposure to propellant.

Engineering controls: Not applicable.

Personal Protective Equipment: Personal Protective Measures:
Avoid contact with eyes, skin and clothing.
Personal Protective Equipment: Wear cotton overalls buttoned to the neck and wrist and washable hat, elbow length PVC gloves and face-shield.
Industrial Hygiene:
If clothing becomes contaminated with product, remove clothing immediately. If product on skin, immediately wash the area with soap and water. After use and before eating, drinking or smoking, wash hands thoroughly with soap and water. After each day's use, wash gloves, face-shield or goggles and contaminated clothing.
Do not puncture or incinerate can.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Creamy white foam
Odour:	Slight characteristic odour
Vapour pressure:	4×10^{-7} mPa at 20° C (imidacloprid)
Vapour density:	Not available
Boiling point:	Not available
Freezing/melting point:	Not available
Solubility:	Not applicable
Density:	1.012 at 20 °C
pH:	6.0
Flash Point:	>200 °F (Liquid foam – as delivered). Propellant gas released from can at point of delivery is highly flammable (see flammability limits below).
Flammability (explosive) limits:	Tests on the flame projection from the can when applied as an aerosol and exposed to a naked flame resulted in a mean projection length of 16 cm.
Auto-ignition temperature:	Not available
Octanol/water partition coefficient:	<i>Imidacloprid</i> : Log P_{ow} = 0.57 (21° C)
Formulation:	Expandable liquid foam in a pressurised aerosol can.

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Hazardous polymerisation:	Hazardous polymerization will not occur.
Conditions to avoid:	Conditions of extreme heat.
Incompatible materials:	Not available.
Hazardous decomposition products:	In the event of fire, the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides must be anticipated. Do not breathe fumes.

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11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

No adverse health effects are expected if this product is used in accordance with the label.

Inhalation:	No respirable particles are generated with this product
Skin contact:	Product exhibits very low toxicity in contact with skin, slight irritation may occur
Eye contact:	May cause some eye irritation
Ingestion:	Product exhibits low toxicity when ingested
Other:	None

ANIMAL TOXICITY DATA – PRODUCT:

Acute:

Oral toxicity:	LD ₅₀ rat: estimated >5000 mg/kg i.e. practically non-toxic
Dermal toxicity:	LD ₅₀ rat: >5000 mg/kg i.e. practically non-toxic
Inhalation toxicity:	Not possible with this formulation as no respirable aerosols are generated
Skin irritation:	Slightly irritating to the skin
Eye irritation:	Not available
Sensitisation:	Product did not show any sensitisation potential in laboratory tests.

Chronic:

Animal studies have shown no evidence of oncogenic effect, no evidence of carcinogenic effects and no teratogenic potential.

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12. ECOLOGICAL INFORMATION

Do NOT apply to any plants in flower while bees are foraging.

Do NOT contaminate ponds, waterways or drains with the chemical or used containers.

Ecotoxicity:

Imidacloprid:

Fish toxicity:

LC₅₀: 237 mg/L (96 h); golden orfe (*Leuciscus idus melanotis*)

LC₅₀: 211 mg/L (96 h); rainbow trout (*Oncorhynchus mykiss*)

LC₅₀: 280 mg/L (96 h); carp (*Cyprinus carpio*)

Aquatic invertebrate toxicity:

EC₅₀: 0.055 mg/L (48 h); *Hyalella azteca*

EC₅₀: 85 mg/L (48 h) *Daphnia magna*

Algae toxicity:

EC₅₀: > 100 mg/L (72 h); green alga (*Pseudokirchneriella subcapitata*)

Bacteria toxicity:

EC₅₀: > 10000 mg/L; activated sludge (OECD 209)

Bird toxicity:

Acute oral LD₅₀: 31 mg/kg; Japanese quail

Acute oral LD₅₀: 152 mg/kg; bobwhite quail

Environmental fate, persistence and degradation:

Imidacloprid shows a medium adsorption to soil. Classified as immobile in soil. Not expected to leach.

13. DISPOSAL CONSIDERATIONS

After intended use:

Can should be completely empty before disposal. Place used can in household rubbish. Do not puncture or incinerate can even when empty.

14. TRANSPORT INFORMATION

UN number: 1956

Proper shipping name: COMPRESSED GAS N.O.S.

Class and 2.2

Subsidiary Risk:

Packing Group: III

DGIER Guide: No. 6

15. REGULATORY INFORMATION

Australian Pesticides and Veterinary Medicines Authority Approval Number: 59345

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16. OTHER INFORMATION

Trademark

information: Premise® is a Registered Trademark of Bayer

Preparation

information: Replaces September 13th, 2006 edition.
Reasons for update: Correction of imidacloprid CAS No.

Data sources:

Bayer CropScience Pty Ltd product safety data and published data

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 should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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.

END OF MSDS