

MATERIAL SAFETY DATA SHEET

Premise Foam Insecticide

Date of Issue: August 24th, 2005

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Premise[®] Foam Insecticide
Other names: None
Product code: Not yet applicable
Recommended use: Ready to use foam for application to termite nests and workings by professional pest control operators
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
Risk phrases: Not applicable
Safety phrases: Not applicable
ADG classification: Class 2.2
SUSDP classification: Exempt

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Imidacloprid	[183261-41-3]	0.5
Isobutane (containing no butadiene)	[75-28-5]	75.00
Other ingredients (non-hazardous)		924.5

MATERIAL SAFETY DATA SHEET

Premise Foam Insecticide

Date of Issue: August 24th, 2005

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 milk or water to dilute.
- First Aid Facilities:** Provide washing facilities in the workplace.
- Symptoms:** No specific symptoms expected. Imidacloprid is a nicotinerigic acetyl choline agonist.
- Medical attention:** Apply basic aid and decontamination procedures.
Antidote: none known

5. FIRE FIGHTING MEASURES

- Extinguishing media:** Water fog
- Hazards from combustion products:** In the event of fire, oxides of nitrogen, hydrochloric acid and phosphorus pentoxide may be emitted.
- Precautions for fire fighters:** Wear full protective clothing and self-contained breathing apparatus. Extinguish any possible sources of ignition if safe to do so.

6. ACCIDENTAL RELEASE MEASURES

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.

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Premise Foam Insecticide

Date of Issue: August 24th, 2005

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 Measures:

Personal Protective Equipment: 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.

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: *Imidacloprid*: $\text{Log } P_{ow} = 0.57$ (21° C)

Formulation: Expandable liquid foam in a pressurised aerosol can.

MATERIAL SAFETY DATA SHEET

Premise Foam Insecticide

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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, oxides of nitrogen, hydrochloric acid and phosphorus pentoxide may be emitted.

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.

MATERIAL SAFETY DATA SHEET

Premise Foam Insecticide

Date of Issue: August 24th, 2005

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 Subsidiary Risk: 2.2
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

First edition.

information:

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