

MATERIAL SAFETY DATA SHEET

Maxforce Liquid Ant Bait

Date of Issue: March 16th 2007

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Maxforce[®] Liquid Ant Bait
Other names: None
Product code: Not available
Recommended use: A liquid ant bait for use in the management of certain pest ants.
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 - NON-DANGEROUS GOOD

Not flammable.

Hazard designation: Not classified as hazardous according to criteria of Worksafe Australia
Risk phrases: Not applicable
Safety phrases: Not applicable
ADG classification: Not "dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail
SUSDP classification: Exempt

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/L):
Imidacloprid	[183261-41-3]	0.05
Other ingredients (Non-hazardous)		~1340

MATERIAL SAFETY DATA SHEET

Maxforce Liquid Ant Bait

Date of Issue: March 16th 2007

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:** Due to the nature of this product inhalation is unlikely.
- Skin contact:** If product gets on skin wash affected areas with plenty of soap and water. Seek medical advice if irritation occurs.
- Eye contact:** Rinse immediately with copious quantities of water to remove material. Seek medical assistance if irritation occurs.
- Ingestion:** Give plenty of water to drink. Never give anything by mouth to an unconscious person.
- First Aid Facilities:** Provide washing facilities in the workplace.
- Symptoms:** This product has a very low level of toxicity. Symptoms are unlikely unless very large quantities are ingested.
Symptoms of intoxication that may arise if the product is mishandled include: apathetic state, depressed muscular tone, respiratory disturbance and trembling. Muscular cramps are also possible in severe cases of poisoning.
- Medical attention:** Treat symptoms (nicotine-like effects) if sufficient exposure has occurred to allow them to occur. Check blood pressure and pulse rate frequently since bradycardia and hypotonia are possible. Provide supportive measures for the respiratory function and cardiac action. 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).
Antidote: none 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:** Sprayed water jet, foam, extinguishing powder, carbon dioxide, and sand.
- Hazards from combustion products:** In the event of fire, the formation of very low levels of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides may be anticipated. Do not breathe fumes.
- Precautions for fire fighters:** Wear full protective clothing and self-contained breathing apparatus.
Not flammable under normal conditions of use.

6. ACCIDENTAL RELEASE MEASURES

Prevent spill from spreading or entering waterways or drains. Absorb spilt material and place in a sealable container for disposal. Do not smoke, eat or drink during the clean-up operation.

MATERIAL SAFETY DATA SHEET

Maxforce Liquid Ant Bait

Date of Issue: March 16th 2007

7. HANDLING AND STORAGE

Handling: Keep out of reach of children.

Storage: Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight. Do not store near any material intended for use or consumption by humans or animals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards: NOHSC exposure standards have not been assigned for imidacloprid nor any of the ingredients in this formulation

Engineering controls: Not applicable.

Personal Protective Equipment: Personal Protective Measures: Avoid contact with skin during use.
Personal Protective Equipment: Not required.
Industrial Hygiene: If clothing becomes contaminated with product wash off with soap and water. If product on skin wash the area with soap and water.
After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear straw coloured liquid

Odour: Mild pleasant aroma

Vapour pressure: Not available

Vapour density: Not available

Boiling point: >100 °C

Freezing/melting point: Not available

Solubility: Not applicable

Density: 1.336 - 1.346 g/ccm @ 20°C

pH: Not available

Flash Point: Not applicable

Flammability (explosive) limits: Not available

Auto-ignition temperature: Not available

Octanol/water partition coefficient: *Imidacloprid*: Log P_{ow} = 0.57 (21° C)

Formulation: Ready to use liquid bait

MATERIAL SAFETY DATA SHEET

Maxforce Liquid Ant Bait

Date of Issue: March 16th 2007

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Hazardous polymerisation:	Hazardous polymerization will not occur.
Conditions to avoid:	Not available
Incompatible materials:	Avoid strong oxidizing agents.
Hazardous decomposition products:	In the event of fire, formation of small amounts of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides may occur.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation:	Due to the nature of the product, inhalation is unlikely to occur.
Skin contact:	No known effects.
Eye contact:	Not known to irritate eyes.
Ingestion:	This product is made up primarily of food grade materials with very low levels of imidacloprid and other additives. As such it has very low toxicity by the oral route.
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: estimated >5000 mg/kg i.e. practically non-toxic.
Inhalation toxicity:	LC ₅₀ (4 h) rat: estimated >10000 mg/cubic metre i.e. practically non-toxic.
Skin irritation:	Not irritating
Eye irritation:	Not irritating
Sensitisation:	Not available

Chronic:

Animal studies show no evidence of oncogenic effect, no evidence of carcinogenic effects and no teratogenic potential for imidacloprid.

MATERIAL SAFETY DATA SHEET

Maxforce Liquid Ant Bait

Date of Issue: March 16th 2007

12. ECOLOGICAL INFORMATION

Imidacloprid is toxic to certain aquatic species.

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*)

Aquatic invertebrate toxicity:

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

1) After intended use:

Rinse containers before disposal. Dispose of rinsings on soil away from edible plants, clear of waterways, desirable vegetation and tree roots. Dispose of empty container by wrapping in paper, placing in plastic bag and putting in garbage.

2) After spill or accident:

Dispose of sealed containers at an approved local waste disposal site.

14. TRANSPORT INFORMATION

UN number: Not applicable

Proper shipping name: Not applicable

Class and Subsidiary Risk: Not "dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Packing Group: Not applicable

EPG: Not applicable

Hazchem code: Not applicable

15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988

APVMA Approval Number: 60885

MATERIAL SAFETY DATA SHEET

Maxforce Liquid Ant Bait

Date of Issue: March 16th 2007

16. OTHER INFORMATION

Trademark

information: Maxforce® is a Registered Trademark of Bayer

Preparation

information: Replaces February 12th 2006 edition
Reasons for change: First Aid Measures, Physical and Chemical Properties, Disposal Considerations, APVMA Number.

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