

MATERIAL SAFETY DATA SHEET

QuickBayt® Spray Fly Bait

Date MSDS prepared: October 7th 2009

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: QuickBayt® Spray Fly Bait
Product code (UVP): 06277055
Recommended use: Insecticide
Supplier: Bayer Environmental Science – A Business Operation 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: Not classified as hazardous according to criteria of NOHSC Australia
Risk phrases: Not applicable
Safety phrases: Not applicable
ADG classification: Not classified as "dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Classified as Environmentally Hazardous (Marine Pollutant) for air or sea transport.
SUSDP classification: Schedule 5

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (%):
Imidacloprid	[138261-41-3]	10.0
Amorphous silica	[7631-86-9]	>1.0
Other ingredients	Non-hazardous	-89.0

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4. FIRST AID MEASURES

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

- Inhalation:** If dust is inhaled remove to fresh air and keep at rest. Seek medical advice. The strong odour associated with the product is due to the food-flavouring attractant blends in the formulation and is not associated with the active ingredient.
- Skin contact:** Wash off skin immediately with soap and plenty of water. Seek medical advice if symptoms persist.
- Eye contact:** Rinse eyes immediately with plenty of water for at least 15 minutes (including under eyelids). Remove contact lenses (if relevant) after the first five minutes, then continue rinsing the eye. Seek medical attention if irritation develops and persists.
- Ingestion:** Call a doctor or poisons information centre immediately. Rinse mouth. Induce vomiting only if: 1. Patient is fully conscious, 2. Medical aid is not readily available, 3. A significant amount (more than a mouthful) has been ingested and, 4. Time since ingestion is less than 1 hour. Vomit should not be allowed to enter respiratory tract. This product contains a taste deterrent and ingestion of large quantities is unlikely.
- First Aid Facilities:** Provide washing facilities in the workplace.
- Treatment:** Apply basic aid and decontamination procedures. Treat symptoms. Monitor respiratory and cardiac functions. In case of ingestion, gastric lavage should be considered in cases of significant ingestions, only within the first 2 hours. However the application of activated charcoal and sodium sulphate is always advisable.

5. FIRE FIGHTING MEASURES

- Extinguishing media:** Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. Avoid use of high volume water jet.
- Hazards from combustion products:** In the event of fire the following may be released: Hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides.
- 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. Make provision for product and fire-fighting water to be retained.

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6. ACCIDENTAL RELEASE MEASURES

If spillage occurs, prevent spillage from spreading or entering waterways and underground drains.

Sweep up spillage and place in a sealable container.

On completion of clean-up, scrub area with detergent and water and rinse with water.

Do not smoke, eat or drink during clean-up operations.

If washing of treated surfaces is necessary, any wash-off water should be collected or prevented from entering waterways or drains. Wash-off water can be disposed of by pouring over bare soil or around non-food producing plants.

7. HANDLING AND STORAGE

Handling: Use only in areas with appropriate ventilation.

Storage: Store in the closed, original container in a cool, well ventilated place out of direct sunlight. Store below 30°C. Keep away from food, drink and animal foodstuffs.
Suitable storage materials:
HDPE
Aluminium composite film (minimum 0.007 mm aluminium)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards: NOHSC exposure standards have not been established for imidacloprid or for any of the inert constituents of this formulation.

Bayer recommends an occupational exposure limit of 0.7 mg/m³.

Engineering controls: No engineering controls are required in the normal use of this product.

Personal Protective Equipment: **In normal use and handling refer to product label.**

In all other cases the following recommendations apply:

Respiratory protection: No personal respiratory protective equipment normally required.

Hand protection: Wear CE marked (or equivalent) nitrile rubber gloves (minimum thickness 0.4 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands before eating, drinking, smoking or using the toilet.

Eye protection: Wear goggles.

Skin and body protection: Wear polyester/cotton overalls underneath chemical protection suit if possible.

Wash hands after handling the product.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to beige fine granule
Odour:	Characteristic (cheese like) smell
Vapour pressure:	4×10^{-7} mPa at 20° C (imidacloprid)
Vapour density:	Not available
Melting point:	181 °C
Solubility:	Dispersible in water
Density:	Not available
pH:	6.0 (1% in water)
Flash Point:	No flash point up to 100°C.
Ignition temperature:	345 °C
Octanol/water partition coefficient:	<i>Imidacloprid</i> : Log P_{ow} = 0.57 (21° C)
Formulation:	Water dispersible granule (WG)

10. STABILITY AND REACTIVITY

Hazardous reactions: No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral toxicity:	LD ₅₀ rat: > 5000 mg/kg
Acute dermal toxicity:	LD ₅₀ rat: > 5000 mg/kg (Active Ingredient)
Inhalation toxicity:	LC50 (rat) >5323 mg/L, aerosol (4 hr) (Active Ingredient)
Skin irritation:	Not irritating (rabbit)
Eye irritation:	Not irritating (rabbit)
Sensitisation:	Not sensitising (guinea pig)

Other information:

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

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12. ECOLOGICAL INFORMATION

Imidacloprid is toxic to certain aquatic species. Dangerous to bees.
Do not contaminate ponds, waterways or drains with the product or used containers.

Toxicity to fish:	<u>Imidacloprid:</u> <i>Fish toxicity:</i> LC ₅₀ : 237 mg/L (96 h); golden orfe (<i>Leuciscus idus melanotis</i>) LC ₅₀ : 211 mg/L (96 h); rainbow trout (<i>Oncorhynchus mykiss</i>) LC ₅₀ : 280 mg/L (96 h); carp (<i>Cyprinus carpio</i>)
Toxicity to aquatic invertebrates:	EC ₅₀ : 0.055 mg/L (48 h); <i>Hyalella azteca</i> EC ₅₀ : 85 mg/L (48 h) <i>Daphnia magna</i>
Toxicity to algae:	EC ₅₀ : > 100 mg/L (72 h); green alga (<i>Pseudokirchneriella subcapitata</i>)
Toxicity to birds:	Acute oral LD ₅₀ : 31 mg/kg; Japanese quail Acute oral LD ₅₀ : 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:

Triple or preferably pressure rinse containers before disposal. Dispose of rinsings in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. If recycling replace cap and return clean containers to recycler or designated collection point. If not recycling break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit. Empty containers and product should not be burnt.

2) After spill or accident:

Dispose of sealed containers at an approved local disposal site.

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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

IMDG

UN number: 3077
Description of goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IMIDACLOPRID MIXTURE)
Labels: 9
Packaging Group: III

15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988.

APVMA Approval Number: 61737

16. OTHER INFORMATION

Trademark information: QuickBayt® is a Registered Trademark of Bayer
Preparation information: First edition.
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