

MATERIAL SAFETY DATA SHEET

Intrigue Termite Dust

Date of Issue: October 11, 2002

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: **Intrigue Termite Dust**
Other names: None
Product code: 1021604
Recommended use: Insect growth regulator dust for termite control in defined situations.
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 6854
Emergency Telephone Number: 1800 033 111 – Orica SH&E Shared Services

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

May irritate skin. Not irritating to eyes

Hazard designation: Not classified as hazardous according to the 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: Schedule 5 (Standard for the Uniform Scheduling of Drugs and Poisons)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/L):
Triflumuron	[64628-44-0]	800
C.I. Pigment Blue	[68187-11-1]	Med
Amorphous silica	[112926-00-8]	Low

Proportion (% weight/weight): Low = 1-9%; Med = 10 - <30%

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: The active ingredient is an insect growth regulator (chitin synthesis inhibitor) and therefore exhibits low mammalian toxicity. Seek medical

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	advice
Skin contact:	Remove any contaminated clothing and wash skin thoroughly with soap and water.
Eye contact:	Hold eyes open and flood with water for at least 15 minutes. Seek medical advice.
Ingestion:	Seek medical advice
First Aid Facilities:	Provide washing facilities in the workplace.
Symptoms:	There are no specific symptoms of triflumuron toxicity known.
Medical attention:	Systemic toxicity with this product is unlikely. In the event of ingestion apply basic aid, decontamination and symptomatic treatment. Triflumuron is a chitin synthesis inhibitor.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Sprayed water jet, foam, extinguishing powder, CO ₂ , sand.
Hazards from combustion products:	If involved in a fire: hydrogen chloride, hydrogen fluoride, hydrogen cyanide, carbon monoxide, and nitrogen oxides may be evolved.
Precautions for fire fighters:	Fight fire in early stages if safe to do so. Wear respiratory protection. Well ventilated areas - full face mask with combination filter (offers no protection from carbon monoxide). Enclosed premises - respirator with independent air supply.
	Contain firefighting water. Do not permit firefighting water to enter drains and waterways if at all possible.

6. ACCIDENTAL RELEASE MEASURES

Prevent spillage from spreading or entering waterways and drains. Work from upwind side of spill. Spread impregnated sawdust over spillage, sweep up and place in a sealable container. Avoid breathing the dust. Clean affected area with aqueous detergent and a small amount of water. Absorb this detergent/water with absorbent material. Do not eat, drink or smoke during clean-up operation. All possible steps should be taken to stop the product entering waterways and drains to prevent contamination of aquatic environments.

7. HANDLING AND STORAGE

Handling:	Keep out of reach of children. Keep away from heat or moisture.
Storage:	Store away from food, drink or animal feeding stuffs. Store above -10 degrees C and below 30 degrees C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Exposure standards:	Amorphous silica MAK: 4 mg/cu m (total dust) OES (GB): 6 mg/cu m (total dust) TLV (USA): 10 mg/cu m (total dust) CI Pigment Blue 36 MAK (fine dust) 6 mg/cu m Australian exposure standard for fine dust: 10 mg/cu m TWA measured as inspirable dust.
Engineering controls:	No engineering controls are required for the normal use of this product according to label
Personal Protective Equipment:	When opening the container and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow length rubber gloves and a disposable dust mask.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue powder
Odour:	Odourless
Vapour pressure:	0.4 X 10 ⁻⁹ mbar at 20 ^o C (active constituent)
Vapour density:	Not applicable
Boiling point:	Not applicable
Freezing/melting point:	Approx 180 ^o C
Solubility:	2.5 X 10 ⁻⁷ g/L at 20 ^o C
Density:	Untamped - 420 mL/100g Tamped - 320 mL/100g
pH:	7.0 to 9.0 at 10% in water
Flash Point:	Not applicable
Flammability (explosive) limits:	Not applicable
Auto-ignition temperature:	Not applicable
Octanol/water partition coefficient:	Log Po/w 4.91.
Formulation:	Powder for termite control

10. STABILITY AND REACTIVITY

Chemical stability:	Triflumuron undergoes thermal decomposition above 380 degrees C.
Hazardous polymerisation:	Hazardous polymerisation will not occur.
Conditions to avoid:	Risk of dust explosion - dust explosion possible. Impact sensitivity - >40 joule, ie., not impact sensitive.

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Incompatible materials: Not available

Hazardous decomposition products: If involved in a fire: hydrogen chloride, hydrogen fluoride, hydrogen cyanide, carbon monoxide, and nitrogen oxides may be evolved.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation: Not available
Skin contact: Not available
Eye contact: Non-irritant to the eyes
Ingestion: Not available
Other: None

ANIMAL TOXICITY DATA – PRODUCT: No data available for the product.

ANIMAL TOXICITY DATA – ACTIVE INGREDIENT:

Acute:

Oral toxicity: LD₅₀ rat: >5000 mg/kg
Dermal toxicity: LD₅₀ rat: >5000 mg/kg
Inhalation toxicity: Not irritating to mucous membrane – rabbit
Skin irritation: Slightly irritating – rabbit
Eye irritation: Not irritating – rabbit
Sensitisation: Not available

Chronic:

The effects of long-term exposure to this formulation are not known. The active constituent has been shown to be non-mutagenic and non-carcinogenic in laboratory tests. There are no specific symptoms of triflumuron toxicity.

12. ECOLOGICAL INFORMATION

Fish toxicity: LC₅₀: > 10 mg/L (96 h) rainbow trout
LC₅₀: >100 mg/L (96 hours) golden orfe
Daphnia toxicity: EC₅₀: 0.23 mg/L (48 hours) daphnia magna.

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Toxicity to algae:	LC ₅₀ : >0.025 mg/L (96 hours, growth rate) green algae
Bird toxicity:	LD ₅₀ : >1000 mg/kg canary LD ₅₀ : 561 mg/kg bobwhite quail
Bee toxicity:	Not available
Other:	Triflumuron is a toxic hazard to juvenile aquatic and terrestrial arthropods
Environmental fate, persistence and degradation:	Degradation of active constituent – half life: t _{1/2} : 960 days at pH4 (22°C) t _{1/2} : 580 days at pH7 (22°C) t _{1/2} : 11 days at pH9 (22°C)

13. DISPOSAL CONSIDERATIONS

- 1) After intended use: Shake and completely empty the contents onto dusting site. Do not dispose of unused chemicals on-site. Break, crush and bury empty containers at a local authority landfill. If not available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.
- 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
National Registration Authority Approval Number: 51839

16. OTHER INFORMATION

Trademark information:	Intrigue is a Registered Trademark of Bayer
Preparation information:	Replaces March 22, 2000 edition. Reason for update: Conversion to 16 heading format.
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

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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