MATERIAL SAFETY DATA SHEET

FipForce Aqua Termiticide

Section 1: Identification of the Product and Company

Product name: **FipForce Aqua Termiticide**

Other names: Fipronil 100 g/lt Suspension concentrate

Use: For use as a Termiticide for pre & post management of subterranean termites.

Company name & Contact details

Company International

Company: Sherwood Chemicals Public Company Limited
Address: 1061-9 Srinakarin Road, Suanluang Bangkok 10250 Thialand
Telephone: 66(0)23202288
Facsimile: 66(0)2302670

Company: Sherwood Chemicals Australasia Pty Ltd
Address: Level 3, 1060 Hay Street, WEST PERTH 6005
Telephone: 08 9219 4683
Fax: 08 9219 4672
Emergency Telephone number: All hours 0421 667 972

Other information: All reasonable care has been taken to ensure the information and advice contained in this data sheet is accurate at the time of printing. However, Sherwood Chemicals accepts no liability for any loss or damages suffered as a consequence of reliance upon the information contained herein.

Section 2: Hazards Identification

Hazard classification: This product is classified as Hazardous according to the criteria of NOHSC Australia.
Harmful by inhalation.
Irritating to eyes and skin.
Harmful: danger of serious damage to health by prolonged exposure if swallowed.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 3: Composition / Information on Ingredients

Chemical entity	CAS N°	Proportion
Fipronil	120068-37-3	10% w/v
Other non hazardous ingredients		90% w/v

Section 4: First Aid Measures

FIRST AID:
You should call the Poisons Information Centre if you feel you may have been poisoned, burned or irritated by this product. The number is 13 11 26 from anywhere in Australia and is available at all times. Have this MSDS with you when you call.

Eye:
Quickly and gently blot or brush away product. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water until the product is removed or until a few minutes after irritation has ceased, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face.

Ingestion:
If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

Inhalation:
No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin:
Blot or brush away excess chemical. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 10 minutes or until chemical is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts). If irritation persists, repeat flushing and obtain medical advice.

ADVICE TO DOCTOR -
Fipronil is a reversible gamma-aminobutyric (GABA) receptor inhibitor. During intoxication it will induce neurological stimulation with possible convulsions.
Treat symptoms. No specific antidote known. Phenobarbital, and to a lesser extent, benzodiazepines, have been shown experimentally to be effective in preventing convulsions induced by fipronil. Due to slow absorption of fipronil through the gut, symptoms of intoxication may be delayed several hours to one day. Absorption may be decreased by the use of gastric lavage, saline purgative and activated charcoal (possible enterohepatic recirculation). Continue monitoring due to slow elimination of the compound.

Other Information
DO NOT attempt to give anything to a semi-conscious or unconscious person.

Section 5: Fire Fighting Measures

Extinguishing Media - Soft stream water fog, Foam, CO_2 or dry chemical. Contain all runoff.

Special Fire Fighting Procedures - Firefighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715, 1716). If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Whenever possible, contain fire-fighting water by surrounding the area with sand or earth to prevent it entering any bodies of water.
Other information - Neutralising chemicals: Hydrated lime.

Section 6: Accidental Release Measures

In the event of a major spill, prevent spillage from entering drains or water courses and contain and absorb spilled material with absorbent material such as sand clay or cat litter and dispose of waste as indicated below or according to the Australian Standard 2507 - Storage and Handling of Pesticides. Immediately call the fire brigade. Wear full protective clothing including face mask, face shield and gauntlets. All skin areas should be covered. Suitable materials for protective clothing include rubber, PVC, Viton. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7: Handling and Storage

Safe handling practices:	Exercise safe handling practices at all times
Storage:	Store in a cool, dry, well ventilated location. Avoid excess heat. No smoking eating or drinking should be allowed where material is used or stored. Keep out of the reach of children and animals. Store in original containers only. Do not locate near or contaminate food or feed by storage or disposal. Wash all exposed skin surfaces prior to smoking drinking or eating. All workers should shower at the end of each work day after handling this product. Wash all clothing after each use.
Other information:	Nil

Section 8: Exposure Controls and Personal Protection

Exposure limits:	No exposure standard has been assigned by the National Occupational Health and Safety Commission (Worksafe Australia) for this product or its ingredients.
Personal protection:	***Work Clothing***: For normal handling wear long sleeve uniform or overalls and head covering. For larger exposures, as in the case of spills, wear full body cover barrier suit, such as rubber rain suit. ***Eye protection***: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used. ***Hand protection:*** Elbow-length PVC or nitrile gloves. ***Body protection:*** You should avoid contact even with mild skin irritants. Therefore you should wear suitable chemical resistant clothing button to the neck and wrist and facial protection when handling this product. ***Engineering controls:*** Control process conditions to avoid contact. ***Respirator:*** Wear a half-face piece respirator with combined dust and gas cartridge during preparation and use of the product. ***Other Information:*** Wash hands after use. After each day's use, wash gloves, respirator face piece and contaminated clothing.

Section 9: Physical and Chemical Properties

Chemical:	Fipronil
Appearance:	Milky white, odourless
Flashpoint:	>97.4% C
Solubility In Water:	Dispersable, 1.9 mg/l(pH 5.0), 2.4 (pH 9) at 20°C (Technical Fipronil)
Corrosive Hazard:	Non corrosive; compatible with aluminum, HDPE, glass and phenolic lined steel containers.
Specific Gravity:	1.05 g/mL at 20°C
Flammability:	Not flammable
Molecular weight:	437.2 (Technical Fipronil)

Section 10: Chemical Stability and Reactivity Information

Chemical stability:	Stable at normal temperature and pressure
Conditions to avoid:	Excess heat, ignition sources
Incompatibility:	Should not be stored or transported with flammable gases, explosives, spontaneously combustible substances, oxidizing agents or food stuffs.
Hazardous decomposition products:	Thermal decomposition products may emit toxic fumes of Hydrogen Chloride and oxides of carbon.

Section 11: Toxicological Information

Toxicology Information	(FipForce Aqua Termiticide) ***Acute oral***: low, LD50 > 2000 mg/kg bw (rat) ***Acute dermal***: low, LD50 >2000 mg/kg bw (rabbit) ***Acute inhalation***: LC50 (4 hr) >1.7 mg/L (Rat) ***Acute inhalation***: LC50 (1 hr, calculated) >6.8 mg/L (Rat) ***Acute skin irritation***: skin irritant ***Acute eye irritation:*** irritating ***Skin Sentisation:*** Non-sensitizing (Guinea pig)
Inhalation	Does not present an inhalation hazard as the product has a very low vapour pressure.
Ingestion	Low acute oral toxicity
Skin	Low acute dermal toxicity. Low dermal absorption (1 %).
Eye	Will irritate eyes. May cause weeping and redness.
Chronic Effects	There is no cancer risk from short or long term exposure to FipForce used according to label directions (US EPA Risk Assessment, 1999). Fipronil is not mutagenic and not teratogenic.

Section 12: Ecological Information

Information on Ecological Effects	Non-toxic to earthworms. Fipronil has low mobility in soil. Toxic to fish and aquatic organisms. Do NOT apply to areas where surface water is present. Rinse waters and run-off from treated areas MUST be prevented from entering drains or waterways. Do NOT contaminate streams, rivers or waterways with the chemical or used containers. Rainbow trout (96hr) LC50: 0.248 mg/L European carp (96hr) LC50: 0.430 mg/L Daphnia magna (48hr) EC50: 0.19 mg/L

Section 13: Disposal Considerations

Drum Disposal**:** Triple or preferably pressure rinse containers before disposal. Add rinsing to spray tank. Do not dispose of undiluted chemicals on-site. 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 specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Do not re-use empty containers.

Section 14: Transport Information

Road or Rail Transportation

This product is not classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Marine and Air Transportation

FipForce Aqua Termiticide is a Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air transport Association (IATA). If transporting by sea or air the following Dangerous Goods Classification applies:-

UN 3082,
Class 9 (Miscellaneous Dangerous Goods),
Packing Group III,
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 10% Fipronil).

Section 15: Regulatory Information

Poison Schedule	S5
Agricultural or veterinary chemicals legislation	This product is registered for use by the APVMA.
Risk Phrase	R20 Harmful by inhalation. R36/38 Irritating to eyes and skin. R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrase	S1/2 Keep locked up and out of reach of children. S13 Keep away from food,drink and animal feeding stuffs. S20/21 When using, do not eat, drink or smoke. S35 This material and its container must be disposed of in a safe way. S46 If swallowed, seek medical advice immediately and show this container or label. S57 Use appropriate container to avoid environmental contamination.
Hazard Category	Harmful, Irritant, Dangerous for the environment

Section 16: Other Information

Company: Sherwood Chemicals Public Company Limited
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MSDS creation date: 21st December 2009

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END OF MSDS