

SAFETY DATA SHEET



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Date of Issue: November 2013
MSDS No. FMC/REL/1

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: RELAY[®] 200 SC TERMITICIDE

Other Names: Imidacloprid. Chloronicotinyl chemical.
Use: For management of termites in buildings and other structures.
Company: FMC Australasia Pty Ltd.
Address: 5 Palmer Place, Murarrie, Qld 4172
Telephone Number: 07 3908 9208 **Fax Number:** 07 3908 9221
Emergency Telephone Number: 1800 033 111 (All hours - Australia wide).

SECTION 2 HAZARDS IDENTIFICATION

**Classified as hazardous according to criteria of Safe Work Australia.
Not classified as a Dangerous Good according to the ADG Code.**

GHS Classification:

Specific Target Organ Toxicity – Single exposure: Category 1.
Eye Irritation: Category 2A.
Skin Irritation: Category 2.
Skin Irritation: Category 1.

Signal Word: WARNING

Hazard Statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H371 May cause damage to organs.

Precautionary statements:

P260 Do not breathe vapours or spray.
P261 Avoid breathing vapours or spray.
P264 Wash hands and face thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves, protective clothing, eye protection and face protection.
P302 IF ON SKIN: Wash with plenty of soap and water.
P305 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309 IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.
P321 Specific treatment (see Safety Directions on the label).
P332 If skin irritation occurs: Get medical advice/attention.
P333 If skin irritation or rash occurs: Get medical advice/attention.
P337 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

Pictograms:



SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients:**

CHEMICAL	CAS NUMBER	PROPORTION
Imidacloprid	138261-41-3	200 g/L
Anti-microbial	55965-84-9	1-9%
Other ingredients (including water) determined not to be hazardous		Balance

SECTION 4 FIRST AID MEASURES**FIRST AID**

Swallowed: If swallowed, do not induce vomiting. Give a glass of water. If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If any discomfort persists seek medical advice.

Eye: If in eyes, hold eyes open and flush with water until chemical is removed. If irritation occurs and persists, obtain medical attention.

Skin: If on skin immediately wash with soap and water. Remove contaminated clothing. If irritation occurs and persists see a doctor. Launder contaminated clothing before re-use.

Inhaled: Remove patient to fresh air. If breathing discomfort occurs, obtain medical attention.

Advice to Doctors: The active ingredient, imidacloprid belongs to the chemical group, chloronicotinyl or neonicotinoid. Therapeutic measures: Basic aid, decontamination, symptomatic treatment. *Systemic:* Symptomatic (nicotine-like effects). Check blood pressure and pulse rate frequently, as bradycardia and hypotonia are possible. Provide supportive measures for 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 (gastric lavage, saline laxatives, activated charcoal). Antidote: None known.

Contraindications:

Absorption promoting agents such as alcoholic beverages and milk. Oils and fats are of no particular use, as the active ingredient has low liposolubility.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: Considered low risk due to water content, however upon evaporation of water the product is combustible.

Extinguishing media: Foam, CO₂ or dry chemical. Soft stream water fog if no alternatives. Contain all runoff.

Hazards from combustion products: On burning will emit toxic fumes of carbon monoxide, carbon dioxide, hydrogen chloride, and nitrogen oxides etc.

Precautions for fire-fighters and special protective equipment: Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency procedures: Isolate and post spill area. Keep out unprotected persons and animals. Wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves. Large spills should be dyked or covered to prevent dispersal. Vacuum shovel or pump spilled material into an approved container and dispose of as listed in section 13.

Material and methods for containment and cleanup procedures: To clean spill area, tools and equipment, wash with a solution of soap, water and acetic acid/vinegar. Follow this with a neutralisation step of washing the area with a bleach or caustic soda ash solution. Finally, wash with a strong soap and water solution. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected. Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

SECTION 7 | HANDLING AND STORAGE

Precautions for Safe Handling: Ensure containers are kept closed until using product. Harmful if swallowed. May irritate the eyes and skin. Repeated occupational exposure during use may cause allergic disorders. Avoid contact with eyes and skin. When using the product, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product or spray on skin, immediately wash area with soap and water. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

Conditions for Safe Storage: DO NOT store near (or allow to contact) fertilizers, fungicides or pesticides. Store in closed original containers, in a cool, well ventilated area away from children, animals, food and feedstuffs. Do not store for prolonged periods in direct sunlight. Do not store near sources of ignition or naked flames.

SECTION 8 | EXPOSURE CONTROLS / PERSONAL PROTECTION**National Exposure Standards:**

No exposure standard for Imidacloprid has been established by Safe Work Australia.

Biological Limit Values:

No biological limit allocated.

Engineering controls:

Use in well ventilated area only. Use local exhaust at all process locations where spray may be emitted. Ventilate all transport vehicles prior to unloading. Keep containers close when not in use.

Personal Protective equipment (PPE):

General: When using the product, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product or spray on skin, immediately wash area with soap and water. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

Personal Hygiene: Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

SECTION 9 | PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Smooth creamy liquid suspension.
Odour:	Slight odour.
Boiling point:	Not available.
Freezing point:	Not available.
Specific Gravity:	1.15 g/mL.
pH:	Not available.
Solubility in Water:	Product disperses in water.
Flammability:	Not a combustible liquid.
Flashpoint (°C):	Not applicable.
Flammability Limits (%):	Not established.
Poisons Schedule:	Product is a schedule 5 (S5) poison.

SECTION 10 | STABILITY AND REACTIVITY

Chemical Stability: Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

Conditions to avoid: Do not store for prolonged periods in direct sunlight. Avoid strong alkaline materials.

Incompatible materials: No particular materials to avoid.

Hazardous decomposition products: upon evaporation of water the product is combustible and will emit toxic fumes of carbon monoxide, carbon dioxide, hydrogen chloride, and nitrogen oxides etc.

Hazardous reactions: No particular reactions to avoid.

SECTION 11 TOXICOLOGICAL INFORMATION**Potential Health Effects:**

Effects from overexposure result from swallowing, breathing or coming in contact with the eyes and skin. Symptoms of overexposure include tremors, loss of motor control and greater numbing, burning and tingling. These sensations are reversible and usually subside within 12 hours.

Acute

Swallowed: This product is harmful if swallowed; the acute oral LD₅₀ (rat) 1218 mg/kg (similar product).

Eye: Causes eye irritation.

Skin: Causes skin irritation. Repeated exposure may cause allergic disorders. The dermal LD₅₀ (rabbit) > 4000 mg/kg. Skin sensitising may occur in sensitive individuals.

Inhaled: Acute inhalation LC₅₀ = 2.23 mg/L/4 hour (Similar product).

Chronic: No data available on this formulation. In studies with laboratory animals, Imidacloprid Technical did not cause mutagenic or carcinogenic effects.

SECTION 12 ECOLOGICAL INFORMATION

Environmental Toxicology: imidacloprid has moderate toxicity to birds. Acute oral LD₅₀ = 31 mg/kg Japanese quail and LD₅₀ = 152 mg/kg Bobwhite quail. Imidacloprid generally has low toxicity to fish and aquatic organisms. Toxicity to fish: LC₅₀ (96 hr) 211 mg/L Rainbow trout (*Oncorhynchus mykiss*), LC₅₀ (96 hr) 237 mg/L Golden Orfe (*Leuciscus idus melanotis*). LC₅₀ (96 hr) 280 mg/L Carp (*Cyprinus carpio*). Toxic to aquatic plants: EC₅₀ (96 h) 0.068 mg/L (biomass) (*Scenedesmus subspicatus*). Harmful to aquatic invertebrates: EC₅₀ (48 h) 85 mg/L (*Daphnia magna*). Dangerous to bees.

Environmental Properties: Imidacloprid has medium adsorption to soil and not expected to leach. Not readily biodegradable. Degradation is mainly microbial and aerobic, but photo-degradation also occurs. Degradation half lives vary with circumstances from a few months to one year.

DO NOT contaminate ponds, waterways and drains with this product or used container.

SECTION 13 DISPOSAL CONSIDERATIONS

Spills & Disposal: In the case of spillage, 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. Wear prescribed protective clothing and equipment. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with a suitable solution (i.e. organic solvent, detergent, bleach or caustic soda) and add the solution to the drums of waste already collected. Label for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local or State Waste Management Authorities.

Dangerous to Fish: Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

Disposal of empty, non-returnable containers: Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. 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, in compliance with relevant Local, State or Territory government regulations. Empty containers and product should not be burnt.

SECTION 14 TRANSPORT INFORMATION

Road & Rail Transport: Relay 200 SC Termiticide is not classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SECTION 15 REGULATORY INFORMATION

Classified as a hazardous substance according to criteria of Safe Work Australia. (Xi, Xn).
Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a schedule 5 poison.
This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 68518.
Product is not classified as a Dangerous Good according to the ADG Code (7th Ed).
Product is not classified as a Dangerous Good according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).

SECTION 16 OTHER INFORMATION

Issue Date: 5 November 2013. Valid for 5 years. (First issue).

Key to abbreviations and acronyms used in this SDS:

ADG Code: Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail).
Carcinogen: An agent which is responsible for the formation of a cancer.
Clonic: An abnormality in neuromuscular activity characterized by rapidly alternating muscular contraction and relaxation.
Genotoxic: Capable of causing damage to genetic material, such as DNA.
Haematopoietic: Pertaining to the formation of blood or blood cells.
Lavage: The irrigation or washing out of an organ, as of the stomach or bowel.
Mutagen: An agent capable of producing a mutation.
Oedema: Accumulation of fluid in tissues.
NOHSC: National Occupational Health and Safety Commission.
Teratogen: An agent capable of causing abnormalities in a developing foetus.
Safe Work Australia: Formally known as Australian Safety & Compensation Council (ASCC) which was formally known as the National Occupational Health & Safety Commission (NOHSC).

References

1. "Search Hazardous Substances". Safe Work Australia website. (2013).
2. "Approved Criteria for Classifying Hazardous Substances" 3rd Ed. NOHSC Australia. [NOHSC:1008 (2004)]. October 2004.
3. Globally Harmonized System of Classification and Labelling of Chemicals (GHS). United Nations, 2009.

This SDS 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 SDS 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.

End SDS