Bayer Environmental Science
Safety Data Sheet
PREMISE® 200 SC TERMITICIDE

Version / AUS
102000007309

Revision Date: 25.07.2012

SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name:	**Premise® 200 SC Termiticide**
Other names:	None
Product code (UVP):	04869125
Recommended use:	Insecticide
Chemical formulation:	Suspension concentrate (=flowable concentrate)(SC)
Company:	Bayer CropScience Pty. Ltd. ABN 87 000 226 022 391-393 Tooronga Road, East Hawthorn Victoria 3123, Australia
Telephone:	(03) 9248 6888
Technical Information Service:	1800 804 479
Facsimile:	(03) 9248 6800
Website:	www.bayeres.com.au
Contact:	(03) 9248 6888 Technical Manager
Emergency telephone no.:	1800 033 111 Orica SH&E Shared Services

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

HAZARDOUS SUBSTANCE DANGEROUS GOODS

Hazardous classification:	Hazardous (National Occupational Health and Safety Commission - NOHSC).
R-phrase(s):	R22 - Harmful if swallowed. R36/38 - Irritating to eyes and skin. R43 - May cause sensitization by skin contact. R50/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s):	See sections 4, 5, 6, 7, 8, 10, 13.
ADG Classification:	Not a "Dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. For transport by sea, Premise 200 SC Termiticide is a MARINE POLLUTANT. See Section 14.
SUSMP classification (Poison Schedule):	Schedule 5 (Standard for the Uniform Scheduling of Medicines and Poisons).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Imidacloprid 200 g/L

Chemical Name	CAS-No.	Concentration [%]
Imidacloprid	138261-41-3	18.30
Mixture of 5-Chlor-2-methyl-3(2H)-	55965-84-9	<= 0.12

isothiazolon and 2-Methyl-2H-isothiazol-3-on		
Glycerine	56-81-5	10.00
Other ingredients (non-hazardous) to 100 %		

SECTION 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 Safety Data Sheet to the doctor.

Inhalation
Move to fresh air. When symptoms persist or in all cases of doubt seek medical advice.

Skin contact
Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

Ingestion
Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth.

Notes to physician

Treatment
Treat symptomatically.
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.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Suitable extinguishing media
Sand.

Extinguishing media which should not be used for safety reasons
High volume water jet.

Hazards from combustion products
In the event of fire the following may be released:
Hydrogen chloride (HCl)
Hydrogen cyanide (Hydrocyanic acid)
Carbon monoxide (CO)
Nitrogen oxides (NO_x)

Precautions for fire-fighting

In the event of fire and/or explosion do not breathe fumes.
Wear self-contained breathing apparatus and protective suit.
Contain the spread of the fire-fighting media.
Do not allow run-off from fire fighting to enter drains or water courses.
Evacuate personnel to safe areas.
Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.
Whenever possible, contain fire-fighting water by diking area with sand or earth.

Hazchem Code •3Z

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with spilled product or contaminated surfaces.
Use personal protective equipment.
When dealing with a spillage do not eat, drink or smoke.
Keep unauthorized people away.

Environmental precautions

Do not allow to get into surface water, drains and ground water.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated floors and objects thoroughly, observing environmental regulations.
Keep in suitable, closed containers for disposal.

Additional advice

Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7. HANDLING AND STORAGE

Handling

Hygiene measures:

Avoid contact with skin, eyes and clothing.
Keep working clothes separately.
Wash hands before breaks and immediately after handling the product.
Remove soiled clothing immediately and clean thoroughly before using again.
Garments that cannot be cleaned must be destroyed (burnt).

Storage

Requirements for storage areas and containers:

Keep containers tightly closed in a dry, cool and well-ventilated place.
Store in a place accessible by authorized persons only.
Store in original container.

Requirements for storage areas and containers:

Keep out of reach of children and animals.

Advice on common storage:
Keep away from food, drink and animal feedingstuffs.

Suitable materials:
HDPE (high density polyethylene).

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Imidacloprid	138261-41-3	0.7 mg/m^3 (TWA)		OES BCS
Glycerine (Inspirable dust.)	56-81-5	10 mg/m^3 (TWA)	12 2011	AU OEL

For further details on the Occupational Exposure Standards, see Section 16.

Biological limit values: None.

Personal protective equipment - End user
Respiratory protection: Not normally required.

Hand protection: Elbow-length PVC or nitrile gloves.

Eye protection: Not normally required.

Skin and body protection: Cotton overall buttoned to the neck and wrist.
Washable hat.

Engineering controls
Advice on safe handling:
Use only in area provided with appropriate exhaust ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form: Liquid, suspension
Colour: White to light beige
Odour: Weak, characteristic

Safety data
pH: 7 - 8.5 at 100 % (23 °C)

Flash point: No flash point - Determination conducted up to the boiling point.

Ignition temperature: No data available

Autoignition temperature: 405 °C

Upper explosion limit: No data available

Lower explosion limit: No data available

Vapour pressure:	No data available
Relative vapour density:	No data available
Density:	ca. 1.10 g/cm³ at 20 °C
Water solubility:	Miscible
Partition coefficient: n-octanol/water:	No data available
Viscosity, dynamic:	400 - 800 mPa.s at 23 °C Velocity gradient 7.5 /s
Surface tension:	48.9 mN/m
Explosivity:	Not explosive 92/69/EEC, A.14 / OECD 113

SECTION 10. STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Heat, flames and sparks.
Materials to avoid:	Acids. Bases. Strong oxidizing agents.
Hazardous decomposition products:	Thermal decomposition can lead to release of: Hydrogen chloride (HCl) Hydrogen cyanide (Hydrocyanic acid) Carbon monoxide Nitrogen oxides (NOx)
Hazardous reactions:	No hazardous reactions when stored and handled according to prescribed instructions.

SECTION 11. TOXICOLOGICAL INFORMATION

Potential health effects

Inhalation:	May be harmful if inhaled.
Skin:	May cause skin irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Eye:	May cause eye irritation.
Ingestion:	Harmful if swallowed.
Acute oral toxicity:	LD_{50} (rat) > 1,218 mg/kg

Acute inhalation toxicity:	LC_{50} (rat) > 2.238 mg/L Exposure time: 4 h Determined in the form of a respirable aerosol. Highest attainable concentration.
Acute dermal toxicity:	LD_{50} (rat) > 4,000 mg/kg
Skin irritation:	No skin irritation (rabbit).
Eye irritation:	No eye irritation (rabbit).
Sensitisation:	Non-sensitizing (guinea pig). OECD Test Guideline 406, Buehler test.

Assessment mutagenicity
Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

Assessment carcinogenicity
Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction
Imidacloprid did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity
Imidacloprid did not cause developmental toxicity in rats and rabbits.

Chronic toxicity
Imidacloprid did not cause any significant specific adverse effects or target organ toxicity in subchronic toxicity studies.

Assessment neurotoxicity
Imidacloprid showed slight behavioral and activity changes only at the highest dose tested in neurotoxicity studies in rats. There were no correlating morphological changes observed in the neural tissues.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish:	LC_{50} (*Oncorhynchus mykiss* (Rainbow trout)) > 535 mg/L Exposure time: 96 h
Toxicity to aquatic invertebrates:	EC_{50} (Water flea (*Daphnia magna*)) > 535 mg/L Exposure time: 24 h
Toxicity to aquatic invertebrates:	EC_{50} (*Chironomus riparius* (non-biting midge)) 0.0552 mg/L Exposure time: 24 h The value mentioned relates to the active ingredient.
Toxicity to aquatic plants:	IC_{50} (*Desmodesmus subspicatus*) > 1,000 mg/L Growth rate Exposure time: 72 h

SECTION 13. DISPOSAL CONSIDERATIONS

Metal drums and plastic 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 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.

SECTION 14. TRANSPORT INFORMATION

ADG

UN-Number:	**3082**
Class:	9
Subsidiary Risk:	None
Packaging group:	III
Description of the goods:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID SOLUTION)
Hazchem Code:	•3Z

According to AU01, Environmentally Hazardous Substances in packagings, IBC or any other receptacle not exceeding 500 kg or 500 L are not subject to the ADG Code.

IMDG

UN-Number:	**3082**
Class:	9
Subsidiary Risk:	None
Packaging group:	III
EmS:	F-A , S-F
Marine pollutant:	YES
Description of the goods:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID SOLUTION)

IATA

UN-Number:	**3082**
Class:	9
Subsidiary Risk:	None
Packaging group:	III
Environm. Hazardous Mark:	YES
Description of the goods:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID SOLUTION)

SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994.

Australian Pesticides and Veterinary Medicines Authority approval number: 49098.

See also Section 2.

SECTION 16. OTHER INFORMATION

Trademark information

Premise® is registered trademark of the Bayer Group.

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.

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.

Further details on the Occupational Exposure Standards mentioned in Section 8:

CEILING: Ceiling Limit Value
OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"
PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.
STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.
SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure.
TWA: Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Reason for revision: Changed name from Material Safety Data Sheet to Safety Data Sheet.

END OF SDS