

MATERIAL SAFETY DATA SHEET



PCT International Pty Ltd

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SPECTRUM 350 SC

SOIL INSECTICIDE

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

Product Name: Surefire Spectrum 350 SC soil insecticide
Product Code: none
Product Use: soil Insecticide for use as per the label directions
Poison Schedule: S5
Supplier: PCT International Pty Ltd
ABN: 44 101 170 923
Street Address: Unit 5 / 74 Murdoch Circuit, ACACIA RIDGE QLD 4110
Telephone: + 61 7 3711 7022
Facsimile: + 61 7 3711 7055

Emergency telephone No: 1800 630 877

Other Information: This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

MSDS Creation Date: 7th November, 2012

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Formulation Type: Liquid Suspension Concentrate

Ingredients	CAS NO.	Concentration
Imidacloprid	138261-41-3	350 g/L
Glycerin	56-81-5	115 g/L
Other ingredients not considered to be hazardous		to 100%

MATERIAL SAFETY DATA SHEET

3. HAZARDS IDENTIFICATION

Emergency Overview Hazardous substance ; Non-dangerous goods ; Harmful to aquatic organisms.

Physical Appearance

Form: Liquid
Colour: Light Pink
Odour: Characteristic
Water Solubility: Soluble
pH: 6.5 – 7.5

Potential Health Effects

Eyes: Irritating to the eyes
Skin: May cause slight irritation
Ingestion: May be slightly toxic based on acute animal studies. Symptoms of poisoning include apathy, muscular cramps, depressed muscular tone, respiratory difficulties and trembling.
Inhalation: May be slightly toxic based on acute animal studies. Exact effects on humans are not known.
Primary Routes of Entry: Eyes, Skin, Inhalation, Ingestion
Target Organs: Eyes, Skin, Respiratory Tract, Digestive System
Carcinogenicity: Not listed by NTP, IARC, ACGIH or OSHA as a carcinogen

4. FIRST AID MEASURES

Eyes: Flush eye(s) for 15 minutes or more- If irritation persists, consult a doctor (preferably an eye specialist) and show this MSDS.
Skin: Remove any contaminated clothing. Wash affected areas immediately and thoroughly with soap and water.
Ingestion: Rinse mouth and then drink plenty of water. Do not induce vomiting. If swallowed seek medical advice and show this MSDS.
Inhalation: Remove affected person from site of exposure to fresh air until recovered. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Seek medical attention if symptoms persist.
First Aid Facilities: If poisoning occurs, contact a doctor or Poisons Information Centre on **13 11 26** (Australia).
General Advice: Remove soiled or soaked / contaminated clothing immediately.
Information for doctor: Imidacloprid belongs to the chloronicotinyl chemical group. Therapeutic measures include basic aid, decontamination and symptomatic treatment. Gastric lavage, saline laxatives or activated charcoal may prove beneficial. There is no known antidote.

5. FIRE-FIGHTING MEASURES

Flash Point: None up to 100°C.
Autoignition Temperature: Not applicable.
Upper Explosion Limits: Not applicable.
Lower Explosion Limits: Not applicable.
Suitable Extinguishing Media: Foam, carbon dioxide, dry powder, water spray,
By-products in case of Fire: In the event of a fire the following can be released:
-Carbon monoxide, nitrous oxide, hydrogen chloride & hydrogen cyanide
Further Information: Keep unnecessary persons away from the area. If safe to do so, remove intact containers, otherwise use water spray to cool them. Collect contaminated firefighting water separately, by bunding the area with sand or earth. Fire control water must not be discharged into drains.

MATERIAL SAFETY DATA SHEET

Special Protective

Equipment for Firefighters: As in any fire, water, self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Methods for Cleaning Up/ Taking Up:

Spills: Dealing with spills has the potential to increase the risk of personal exposure- during such operations, ensure that protective clothing is worn as detailed below. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away. Prevent spillage from entering drains, sewers or watercourses. If contamination thereof is unavoidable, warn the local water authority. Spills should be contained and absorbed with soil, sand, sawdust, clay, cat litter or other similar material, and once absorption is complete, this material then be placed in sealable, labeled, drums for safe disposal in an approved landfill, and in accordance with the requirements of local or State Waste Management Authorities. Alternatively, bury under at least 500^{mm} of soil in an area away from crops, pastures, homes or water sources. To decontaminate spill area, tools and equipment, wash with a suitable solution, e.g. organic solvent, detergent, bleach or caustic, and add this material to the drums of waste already collected. Label all contents. Do not burn empty containers or product.

7. HANDLING AND STORAGE

Advice on safe

Handling: Keep out of reach of children. Avoid contact with eyes and skin. Wash hands after use, and before smoking or eating / drinking. Wash protective gear and clothing after each day's use.

Advice on protection against fire and explosion:

Not flammable- no special measures required.

Storage information: Keep product in the original container, tightly closed, in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	CAS No	Basis	Type	Value	Note
Glycerin mist	56-81-5	NOHSC	TWA	10mg/m ³	

General protective Measures:

Avoid contact with eyes and skin
Do not inhale mists.

Hygiene Measures:

No smoking, eating or drinking allowed when using this product.
Wash hands before breaks and at end of work shift.
Protective ointment is recommended.

Respiratory Protection:

In case of formation of mists or vapours, an organic vapour cartridge respirator should be used.

Hand Protection:

Elbow length PVC gloves should be worn when using this product.

Eye Protection:

Safety goggles and/or face shield is recommended when using this product.

Protective clothing:

Cotton overalls buttoned to the neck and wrist, and a washable hat, are required when using this product.

Engineering Controls: Use in a well ventilated area only. Good general (mechanical) ventilation should be sufficient to control airborne mist levels.

MATERIAL SAFETY DATA SHEET

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pink / beige liquid suspension concentrate
Odour:	Slight characteristic odour.
Solubility in Water:	Miscible with water.
Specific Gravity (H₂O=1):	approx. 1.16 @ 20°C
pH Value:	6.5 – 7.5 @ 25°C
Vapour Pressure:	9 x 10 ⁻⁷ mPa @ 20°C
Melting Temperature:	not measured
Boiling temperature:	not measured
Viscosity, dynamic:	not measured

10. STABILITY AND REACTIVITY

Conditions to avoid:	None with proper storage and handling, other than extreme heat.
Thermal Decomposition:	Not measured, although if involved in a fire, the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrous oxides can be expected.
Hazardous reactions:	No hazardous reactions with proper storage and handling
Hazardous Polymerization:	Unlikely to occur.
Stability:	Stable under normal conditions of storage and use.
Hazardous decomposition products:	None with proper storage and handling.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral:	LD ₅₀ (rat) 1218 – 1684 mg/kg approx.
Acute Toxicity - Inhalation:	LC ₅₀ (rat) >2.238mg/L exposure time 4h method
Acute Toxicity - Dermal:	LD ₅₀ (rat) >4000mg/kg
Eye Irritation:	(Species - rabbit) slight irritant
Skin Irritation:	(Species - rabbit) non - irritant
Skin Sensitisation:	(Species - guinea pig) non-sensitising
Note:	harmful by inhalation and in contact with skin Irritant to skin Risk of serious damage to eyes The toxicological data refer to the undiluted 100% product.

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:	
Acute Toxicity – Fish:	LC ₅₀ for rainbow trout is 211 mg/L
Acute Toxicity - Daphniae:	EC ₅₀ for daphnia magna is 85 mg/L
Acute Toxicity – Algae:	EC ₅₀ for green algae is >100 mg/L
Acute Toxicity – Birds:	LD ₅₀ for Japanese Quail is 31 mg/Kg
Further ecological information:	
Ecological notes:	This product is considered to be a water pollutant. It is classified as immobile in soil and is not expected to leach. Do not discharge product unmonitored into the environment. The ecotoxicological data refer to the undiluted 100% product.

MATERIAL SAFETY DATA SHEET

13. DISPOSAL CONSIDERATIONS

ALWAYS DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Product Disposal: In accordance with local authority regulations, take to special waste incineration plant.

Container Disposal: Dispose of empty, used containers by triple rinsing, or preferably pressure rinsing. Add the rinsate to the spray tank or dispose of the rinsate in a disposal pit away from desirable plants and their roots and from watercourses. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return cleaned containers to a recycler or designated collection point. If not recycling, break, crush or puncture empty containers and bury in a local authority landfill. If no landfill available, bury the containers at least 500^{mm} deep 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.

14. TRANSPORT INFORMATION

U.N. Number: n/a

DG Class: n/a

Hazchem Code: None Allocated

Class & Subsidiary Risk: n/a

Packing Group: 111

EPG: n/a

Storage and Transport: Considered non – dangerous goods for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

APVMA Approval No: 66265/xx/53155

Risk Phrases: R22 Harmful if swallowed.

Safety Phrases: S24 Avoid Contact with skin

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

Poisons Schedule: S5

Packaging &

Labeling:

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category

AICS (Australia): Listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Reason for update: Extension to Label for subterranean termite treatments

Contact Person/Point: Mr David Pearson Phone: (07) 3711 7022

This MSDS contains only safety-related information. For other data, see product literature.

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...End of MSDS...