

# SAFETY DATA SHEET



## PCT International Pty Ltd

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# BENT 100 EC

## INSECTICIDE

Classified as hazardous according to criteria of NOHSC

### 1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

**Product Name:** SureFire **BENT 100EC** Insecticide  
**Product Code:** none  
**Product Use:** agricultural insecticide for use as described on the product label.  
**Poison Schedule:** S6  
**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 SDS 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 Date:** 7<sup>th</sup> March 2014

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Formulation Type:** emulsifiable concentrate

Ingredients	CAS No	Proportion
Bifenthrin	82657-04-3	100g/L
Aromatic hydrocarbon solvent	64742-94-5	763g/L
Other ingredients deemed not to be hazardous		to 100%

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## 3. HAZARDS IDENTIFICATION

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

### Physical Appearance

**Form:** Liquid  
**Colour:** Light brown  
**Odour:** Characteristic  
**Water Solubility:** Emulsifies in water

### Potential Health Effects

**Eyes:** Moderately irritating to the eyes  
**Skin:** Minimally irritating to the skin. May cause dermal sensitization or skin tingling.  
**Ingestion:** Harmful if swallowed.  
**Inhalation:** This product may be harmful if inhaled. Avoid breathing vapor, spray or fumes. Inhalation of aromatic hydrocarbon vapours may cause dizziness, vision disturbance, and irritation to the eyes, skin and mucous membrane of the respiratory and gastrointestinal tract.

### Primary Routes of Entry:

**Target Organs:** Eyes, Skin, Inhalation, Ingestion  
Eyes, Skin, Respiratory Tract, Digestive System

## 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 SDS.  
**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 SDS.  
**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 clothing immediately.

### Information for doctor:

Bifenthrin, the active ingredient in this product is a pyrethroid insecticide. The formulation also contains liquid hydrocarbons that can cause severe pneumonitis or fatal pulmonary oedema if aspirated. Consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is otherwise symptomatic and supportive. In cases of skin contact, it has been reported that topical applications of Vitamin E acetate was found to have very high therapeutic value, eliminating almost 100% of the skin pain associated with synthetic pyrethroids.

## 5. FIRE-FIGHTING MEASURES

**Fire and Explosion Hazards:** Combustible liquid. Material may support combustion at elevated temperatures. Sealed, overheated containers may present an explosion hazard. Thermal decomposition and burning may produce toxic by-products.

**Fire Extinguisher type:** Soft stream water, foam, CO<sub>2</sub> or dry chemical. Contain all runoff.

**Fire Fighting Procedures:** Isolate fire area & evacuate downwind residents. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact any smoke, gases or vapours generated. Keep containers cool with soft water stream.

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## Hazardous Decomposition

**Products:** Carbon monoxide, carbon dioxide, hydrogen chloride, chlorine, fluorine and hydrogen fluoride.

**Flash Point:** Approx. 68° Celsius.

**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.

## 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<sup>mm</sup> 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:

Product is classified as a C1 (Combustible Liquid) for the purpose of storage and handling (AS 1940)

**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

### 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Yellow-brown liquid
<b>Odour:</b>	Characteristic solvent odour.
<b>Solubility in Water:</b>	Emulsifies in water.
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	approx. 0.88 g/ml @ 20°C
<b>pH Value:</b>	not available
<b>Vapour Pressure:</b>	not available
<b>Melting Temperature:</b>	not measured
<b>Boiling temperature:</b>	not measured
<b>Viscosity, dynamic:</b>	not measured

## 10. STABILITY AND REACTIVITY

<b>Conditions to avoid:</b>	None with proper storage and handling, other than extreme heat.
<b>Thermal Decomposition:</b>	Not measured, although if involved in a fire, the formation of Carbon dioxide, carbon monoxide, & smoke can be expected.
<b>Hazardous reactions:</b>	No hazardous reactions with proper storage and handling
<b>Hazardous Polymerization:</b>	Unlikely to occur.
<b>Stability:</b>	Stable under normal conditions of storage and use.
<b>Hazardous decomposition products:</b>	None with proper storage and handling.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicity:</b>	Bifenthrin is harmful to mammals when ingested. Large doses may cause incoordination, tremor, salivation, vomiting, diarrhoea, and sound/ touch irritability. LD <sub>50</sub> for Bifenthrin is about 632 mg/kg in rats. It can cause a tingling sensation on human skin which lasts about 12 hours. Dermal LD <sub>50</sub> (rabbit) > 2000 mg/kg.
<b>Chronic Toxicity;</b>	No information available.
<b>Teratogenic Effects:</b>	Bifenthrin does not demonstrate any teratogenic effects at the highest levels tested- 100 ppm- in a two-generational study in rats.
<b>Mutagenic Effects:</b>	Evidence is inconclusive.
<b>Carcinogenic Status: NOHSC:</b>	No ingredient is classified as carcinogenic by NOHSC.
<b>Organ Toxicity:</b>	Bifenthrin is a pyrethroid which affects the electrical impulses in nerves, over-stimulating nerve cells, causing tremors and eventually paralysis.

## 12. ECOLOGICAL INFORMATION

<b>Effects on Birds:</b>	Bifenthrin is moderately toxic to many species of birds, with concern about possible bioaccumulation in birds.
<b>Effects on Aquatic Organisms:</b>	Bifenthrin is highly toxic to fish, crustaceans and aquatic animals. Because of its low water solubility and high affinity for soil, Bifenthrin is unlikely to be found in aquatic systems.
<b>Effects on non-target species:</b>	Bifenthrin is toxic to bees.
<b>Environmental Properties:</b>	Bifenthrin is rapidly degraded in soil with a half-life of 50- 205 days. It is rapidly hydrolysed under basic conditions (pH= 9) but, under acidic and neutral conditions, hydrolysis half-life can be 20 to 29 days. Bifenthrin has a high affinity for organic matter, yet, because of the ease with which the material undergoes degradation, it has a very low potential for bioaccumulation. It is not mobile in soil and has extremely low water solubility.

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**Environmental Toxicology:** Bifenthrin is considered toxic to fish and aquatic arthropods. Do not contaminate sewers, drains, dams, creeks or any other waterways with product or the used container. into the environment. The ecotoxicological data refer to the undiluted 100% product.

## 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<sup>mm</sup> 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

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

**Marine and Air Transport:** Product 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 No. 3082, Class 9 (Miscellaneous Dangerous Goods), Packing Group III, Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 10% Bifenthrin).

## 15. REGULATORY INFORMATION

**APVMA Approval No:** 69313/20L/60467

**Risk Phrases:** R20, R22, R36, R37, R65. Harmful by inhalation; Harmful if swallowed; Irritating to eyes, Irritating to respiratory system; Harmful- may cause lung damage if swallowed.

**Safety Phrases:** S2, S13, S23, S24/5, S36/7. Keep out of reach of children; Keep away from food, drink and animal foodstuffs; Do not breathe vapor or spray; Avoid contact with skin and eyes; Wear suitable protective clothing and gloves.

**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

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

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

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...End of SDS...