PRODUCT: DUPONT AVATAR® INSECTICIDE

Hazardous According to Criteria of NOHSC

PRODUCT IDENTIFICATION

UN No: N/R
Poisons: S6 (Fed)

Tradenames: Manuf.:  
Avatar® insecticide  DuPont

Use: For the control of Lepidopteran insect pests in broccoli, Brussels sprouts, cabbages, cauliflower, apples and pears

Ingredients: CAS No: Proportion:
Indoxacarb 173584-44-6 400 g/kg
Inert Ingredients to 1 kg

Physical Description / Properties

Appearance:
   Odour: Mild Lignin
   Colour: Dark Brown
   Form: Granular

Other Properties:
   Bulk Density: 0.8 g/mL
   Solubility in Water: 0.2 ppm (a.i.)
   Vapour Pressure: 2.5 x 10^{-8} Pa (a.i.)

HEALTH HAZARD INFORMATION

Acute Effects

Eye:
   May cause mild eye irritation with tearing, pain or blurred vision.

Skin:
   May cause slight skin irritation with itching, redness or swelling. Avoid contact with skin. Not classified as hazardous according to the criteria of NOHSC.

Inhaled:
   May cause irritation of the upper respiratory passages with coughing and discomfort. Not classified as hazardous according to the criteria of NOHSC.

Swallowed:
   Ingestion of large amounts may cause alterations in blood cell counts and/or anemia. Hazardous if swallowed according to the criteria of NOHSC.

The information contained herein is offered only as a guide to handling this specific material. It does not relate to use of the material in combination with any other material or in any process. Persons using this information must determine for themselves whether the material is suitable for any particular application.
HEALTH HAZARD INFORMATION: (Continued)

**Chronic Effects**

None established for formulated product.

Based on animal data from indoxacarb, the following chronic effects may occur in animals. Ingestion of indoxacarb by dogs for one year caused haemolytic anaemia with secondary histopathological changes and decreased body weights. The NOEL for both male and female dogs was 40 ppm. Effects in male and female rats that were fed indoxacarb in their diets for two years include decreased body weight, in addition females also had some haemolysis. The NOEL for the two year rat feeding study was 60 ppm for male rats and 40 ppm for female rats. Male and female mice fed indoxacarb for eighteen months had decreased body weight, in addition females showed signs of neurotoxicity, some mortality and a few incidences of histopathologic changes in the brain (probably secondary to seizures). The NOEL for the eighteen month mouse feeding study was 20 ppm in male and female mice. Tests have shown that indoxacarb does not cause genetic damage in bacterial or mammalian cell cultures or in animals. Based on animal data, indoxacarb is not considered a carcinogenic, reproductive or developmental hazard. The maternal and developmental NOEL was 2.0 mg/kg.

**Other Health Effects**

Avatar® insecticide is an eye irritant, and a slight to mild skin irritant. It is not a skin sensitiser. Avatar® insecticide in high single oral doses caused nasal and ocular discharge, altered righting reflex, incoordination, tremors or convulsions. Single oral dosing studies with indoxacarb to assess potential neurotoxicity were conducted in male and female rats. The NOEL for neurotoxicity was 100 mg/kg for male rats and 12.5 mg/kg for female rats. Repeated oral dosing with indoxacarb caused milk hemolytic anemia and reduced body weight gain in male and female rats, additionally, female rats experienced weakness and incoordination while male rats exhibited some changes in clinical chemical measurements. The NOEL in a 90 day repeated oral dosing study was 100 ppm for male rats and 25 ppm for female rats. Single exposure to Avatar® insecticide by inhalation caused no significant effects.

**First Aid**

**Eye:**

If product in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. If poisoning occurs, contact a doctor or Poisons Information Centre (ph 13 11 26).

**Skin:**

In case of contact, remove contaminated clothing. Rinse skin immediately with soap and plenty of water for 15-20 minutes. Wash contaminated clothing before reuse.

**Inhaled:**

If inhaled, remove person to fresh air. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek Medical attention.

**Swallowed:**

If poisoning occurs, contact a doctor or Poisons Information Centre (ph 13 11 26). Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

**Toxicity Data**

- Oral LD$_{50}$ (male rat): 1867 mg/kg
- Oral LD$_{50}$ (female rat): 687 mg/kg
- Dermal LD$_{50}$ (rats): > 5000 mg/kg
- 4 hr inhalation LC$_{50}$ (rat): > 5.6 mg/L

**Aquatic Toxicology:**

- 96 hour LC$_{50}$ – Rainbow trout: 0.65 mg/L
- 96 hour LC$_{50}$ – Bluegill sunfish: 0.90 mg/L
- 48 hour LC$_{50}$ – Daphnia magna: 0.60 mg/L

**Avian Toxicology:**

- Acute Oral LD$_{50}$ – Bobwhite Quail: 98 mg/kg
- Acute Dietary LC$_{50}$ – Bobwhite Quail: 808 ppm
- Acute Dietary LC$_{50}$ – Mallard Duck: >5620 ppm

(Please note: the above Aquatic & Avian Toxicity is for indoxacarb)

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Reactivity Data:

Stable at normal temperatures and storage conditions. Decomposition will not occur.
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REGULATORY INFORMATION

Package and Labelling:   UNSCH (Fed)
Contains:               Indoxacarb  40 %
Risk Phrases: 
   R22       Harmful if swallowed

SOURCE INFORMATION


ADDITIONAL INFORMATION

Contact Points: 
   For sales, technical, and product related enquiries contact DuPont's North Sydney office on (02) 9923 6111. Outside the Sydney metropolitan area 1800 252 997 is a toll free number to North Sydney Office. To assist communications, ask for the Customer Service, Technical, or Marketing personnel for the product family relative to the inquiry.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

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