DuPont™ Altacor® insecticide

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification          ALTACOR®
Product description          Rynaxypyr® insecticide
Recommended use          Insecticide for control of insects in apples, pears and Nashi pears.
Company details          DuPont (New Zealand) Limited
                          Central Park Corporate Centre
                          Level 2, Building 5
                          666 Great South Road
                          Greenlane, Auckland 1051
Telephone          (09) 526 2501
Fax          (09) 526 2560
24-hour Emergency phone          0800 658 080
Date of issue          May 2013

2. HAZARDS IDENTIFICATION

HSNO Classification          9.1A (aquatic toxicant)
Hazards          Ecotoxic - very toxic to aquatic organisms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>Proportion</th>
</tr>
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<tbody>
<tr>
<td>Chlorantraniliprole</td>
<td>500008-45-7</td>
<td>35%</td>
</tr>
<tr>
<td>Inert Ingredients</td>
<td></td>
<td>75%</td>
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</table>
4. FIRST AID MEASURES

Inhalation
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a doctor.

Skin Contact
If spilt on skin, remove contaminated clothing and wash affected areas of skin immediately. DO NOT scrub the skin. Remove and wash contaminated clothing before reuse.

Eye Contact
If concentrate is splashed in eyes, flush with running water for at least 15 minutes. Take to hospital without delay. For advice contact the National Poisons Centre 0800 POISON (0800 764766)

Ingestion
If swallowed, DO NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764766) or call a doctor if feeling unwell.

5. FIRE FIGHTING MEASURES

Flammable Properties
Non flammable.

Extinguishing Media
Water, water spray, foam, dry chemical, CO₂.

Fire Fighting Instructions
Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Runoff from fire control may be a pollution hazard.

If the area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment.

Hazchem code
2Z

6. ACCIDENTIAL RELEASE MEASURES

Spill precautions
Use appropriate Personal Protective Equipment during clean up. (See Section 8)

Spill containment
Dyke spill. Prevent liquid from entering the sewers, waterways, or low areas.

Spill clean-up
Shovel or sweep up. DO NOT flush with water. Place material in a clean, dry container and cover for disposal. Wash contaminated areas with water and detergent. Prevent liquid from entering sewers, waterways or low areas. Soak up with sawdust, sand or other absorbent material. Shovel or sweep up. Never return to container for reuse. (See section 13 for disposal instructions.)
7. HANDLING AND STORAGE

Handling
Avoid skin and eye contact. Avoid inhaling the vapour, or spray mist. Wash thoroughly after handling. Wash clothing after use.

Storage
Store in the closed, original container in a dry, well ventilated area, as cool as possible out of direct sunlight and under lock and key. Keep from contact with fertilisers, fungicides and seeds. Do not store with Classes 1, 2, 3.2,4 or 5 substances. Stores containing more than 100kg of this product, either alone or in aggregate with other Hazardous substances are subject to requirement of an emergency management response plan, secondary containment and signage.

8. EXPOSURE CONTROLS/PERSONNAL PROTECTION

Exposure Limits
Chlorantraniliprole total dust AEL 10 mg/m³ DuPont AEL (2007)

Engineering Controls
Use only with adequate ventilation. Keep container tightly closed. Do not generate dust.

Personal Protective Equipment
Wear overalls or long sleeve shirt, long pants, boots.

Respirator
Respiratory protection should not be required for normal use and handling. During abnormal exposures or when there is a chance that the AEL will be exceeded, use of an approved respirator is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Odour
slight, sweet.

Form
granular

Colour
light brown

Bulk density
695 kg/M³ loose

Solubility in Water
disperses

pH
9.4 @ 10g/L (25°C)

Corrosivity
Non corrosive

Oxidisation
Not an oxidiser.

(Also,see sections 5 & 10)

10. STABILITY AND REACTIVITY

Stability
Stable at normal temperatures and storage conditions.
11. TOXOCOLOGICAL INFORMATION

Toxicity Data

Oral LD<sub>50</sub> rat: > 5,000 mg/kg
Dermal LD<sub>50</sub> rat: > 5,000 mg/kg
Inhalation LC<sub>50</sub> rat: 4 hr: > 6.2 mg/L
Not a skin or eye irritant
Not a skin sensitiser
Not a reproductive or developmental toxin. Not mutagenic, carcinogenic.

Technical

28 day oral toxicity study in rats showed NOEL 20,000 ppm
90 day study in dogs showed NOEL 40,000 ppm
1 year study in dogs showed NOEL 40,000 ppm

12. ECOLOGICAL INFORMATION

Fish 96 hour LC<sub>50</sub> – Rainbow trout: > 3.2 mg/L,
96 hour LC<sub>50</sub> – Bluegill sunfish: > 3.2 mg/L.
48 hour EC<sub>50</sub> – Daphnia magna: 0.011 mg/L, Algae EC<sub>50</sub> (72hr) > 5 mg/L.
(9.1A) Very toxic to aquatic organisms. Avoid contamination of any water supply with chemical or empty container. Dissipation in water-at pH 9, DT<sub>50</sub> for technical material was 10 days @25°C. DT<sub>50</sub> in soil - 210-274 days.
Worms LC<sub>50</sub> (14 days) > 1,000 mg/kg
Acute Oral LD<sub>50</sub> – Bobwhite Quail > 2,250 mg/kg
Acute Dietary LC<sub>50</sub> – Bobwhite Quail: > 5,620 ppm (technical)
Acute Dietary LC<sub>50</sub> – Mallard Duck: > 5620 ppm (technical)
Bee LD<sub>50</sub> (48hr) > 285.7 µg/bee (contact), oral LD<sub>50</sub> (48hr) > 340.5 µg/bee.

13. DISPOSAL CONSIDERATION

Container disposal: Ensure container is empty. Triple rinse, and add rinsates to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, burn if circumstances, especially wind direction permit, otherwise bury in an approved landfill. DO NOT reuse container. Dispose of this product only by using according to this label. Always follow local Authority requirements.

14. TRANSPORTATION INFORMATION

Proper Shipping Name  Environmentally Hazardous Substance, Solid, N.O.S.
(chlorantraniliprole)
Hazard Class  Class 9
UN NO.  UN 3077
Packing Group  PG III
**15. REGULATORY INFORMATION**

**HSNO Approval Code:** HSR 007968  
**HSNO Controls (inc. Tracking and Record Keeping):** See www.epa.govt.nz/ for controls.  
**Approved handler:** This product must be under the control of an approved handler during use.  
**ACVM Registration:** DuPont™ Altacor® insecticide is registered pursuant to the ACVM Act 1997 No. P. 7831  
**ACVM Controls:** See www.foodsafety.govt.nz/ for registration conditions.

**16. OTHER INFORMATION**

**Glossary**

- **ACGIH**: American Conference of Governmental Industrial Hygienists.  
- **DT₅₀**: Time(days) for 50% loss.  
- **EC₅₀**: Median effective concentration.  
- **EEL**: Environmental Exposure Limit.  
- **ERMA**: Environmental Risk Management Authority  
- **HSNO**: Hazardous Substances and New Organisms.  
- **IARC**: International Agency for Research on Cancer.  
- **Kₒₒₑ**: Organic carbon partition coefficient (ml soil water/g organic carbon)  
- **LC₅₀**: Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.  
- **LD₅₀**: Lethal dose to kill 50% of test animals/organisms.  
- **NOEL**: No observable effect level.  
- **OSHA**: American Occupational Safety and Health Administration.  
- **Pₒₒₒₜₜ**: The octanol-water partition coefficient is the ratio of the concentration of a chemical in octanol and in water at equilibrium at a specified temperature.  
- **TEL**: Tolerable Exposure Limit.  
- **TLV**: Threshold Limit Value—an exposure limit set by responsible authority.  
- **WES**: Workplace Exposure Limit  

**Miscellaneous**

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.

**Responsibility for MSDS**

DuPont (New Zealand) Limited  
For further information Freephone 0800 658080