



# PRODUCT SPECIFICATION SHEET

## Aphid Spray

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### 1. Product Identification

Product Name: Southland Carbon Aphid Spray  
Supplier: Southland Carbon Limited  
Address: The Brickworks, 1257 Waipahi Highway, Pukerau 9772, New Zealand  
Phone: +64 3 422 2240  
Emergency: +64 21 465 067  
Website: [www.southlandcarbon.co.nz](http://www.southlandcarbon.co.nz)

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### 2. Product Description

Southland Carbon Aphid Spray is a natural liquid condensate produced during the controlled pyrolysis of untreated wood biomass.

It contains a complex mixture of organic acids, phenols, and bioactive compounds that provide antimicrobial, soil-enhancing, and plant-stimulating properties and simultaneously repel aphids.

Produced alongside biochar at Southland Carbon's Pukerau facility, it is derived from 100% untreated, virgin plant material.

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### 3. Typical Composition

| Component         | Typical Range |
|-------------------|---------------|
| Pyroligneous Acid | 5%            |
| Water             | 95%           |

*Note: Composition may vary slightly depending on feedstock and process conditions.*

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## 4. Physical & Chemical Properties

| Property      | Specification               |
|---------------|-----------------------------|
| Appearance    | Light brown liquid          |
| Odour         | Smoky, vinegar-like         |
| Solubility    | Fully miscible in water     |
| Boiling Point | ~100°C                      |
| Flash Point   | Not classified as flammable |

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## 5. Key Functional Properties

### Southland Carbon Aphid spray may

- Deter insects including aphids
  - Assist with Antimicrobial action (bacteria, fungi)
  - Stimulate plant growth at low concentrations
  - Enhance soil microbial life
  - Support nutrient cycling
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## 6. Recommended Uses

### Agriculture/Horticulture/Plants

- Foliar spray
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## 7. Application Guidelines (Typical)

| Application | Rate                      |
|-------------|---------------------------|
| Infestation | Weekly to leaves and soil |
| Prevention  | Every 14 days             |

*Always trial on a small area before full application.*

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## 8. Safety & Handling

- Avoid contact with eyes and skin (acidic liquid)
  - Use gloves and eye protection when handling concentrate
  - Do not ingest
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## 9. Storage & Shelf Life

- Store in sealed containers
  - Keep out of direct sunlight
  - Store below 30°C
  - Shelf life: 24 months when stored correctly
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## 10. Quality & Compliance

- Produced from untreated biomass only
  - Manufactured under controlled pyrolysis conditions
  - No synthetic additives or chemicals introduced
  - Suitable for agricultural use when applied as directed
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## 11. Environmental Information

- Biodegradable
  - Low environmental persistence
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## 12. Packaging Options

- 1L containers
  - Custom Orders for large quantities
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## 13. Disclaimer

This product specification provides typical values and guidance only. Performance may vary depending on application method, environmental conditions, and dilution rates. Users should conduct their own trials to determine suitability for specific applications.

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