



Omnia  
PO Box 201041  
Auckland Airport  
Manukau 2150  
Tel (09) 257 4030  
Fax (09) 257 4031

## SAFETY DATA SHEET

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Trade name: **HIYIELD PLUS**

Date of Issue: 30 September 2009

### 1. Product and Company identification.

1.1 Product name: Hiyield Plus

1.2 Manufacturers product code: 1000 litres – 30447D  
200 litres – 30447E  
20 litres – 30447J  
5 litres – 30447N

1.3 Company Identification: Omnia Primaxa Limited T/A as Omnia  
132 Pavilion Drive  
Airport Oaks  
Manukau 2150  
New Zealand  
Tel: 64 9 257 4030  
Fax: 64 9 257 4031

1.4 Emergency Telephone Numbers:  
24 hour Emergency only 0800 CHEMCALL (0800 243 622)  
National Poisons and Hazardous Chemicals Information Centre Dunedin:  
Phone: 0800 POISON (0800 764-766)  
Transport Emergency Only Dial: 111

### 2. Hazards identification

**Classified as Hazardous**

**Classified as Dangerous Goods for transport**

HSNO Hazard Classification: 6.1D, 6.3A, 6.4A, 6.5B, 9.1B, 9.3C

KEEP OUT OF THE REACH OF CHILDREN

Toxic:

- Contact sensitizer
- Toxic to fish with long lasting effects. Avoid contamination of any water supply

Harmful:

- May be harmful if swallowed, inhaled or absorbed through the skin.
- May cause eye irritation.
- May cause skin irritation.
- Harmful to terrestrial vertebrates

### 3. Composition/information on ingredients

Chemical type: Foliar fertiliser

Ingredient	CAS Number	Content in g/litre
Didecyl Dimethyl Ammonium chloride (DDAC)	7173-51-5	6.0
Octhilineone	26530-20-5	3.5
Mineral salts (NPK + Trace elements)		311.3
Polysiloxane surfactant	134180-76-0	2.4
Non hazardous excipients		1.1
Water:	7732-18-5	Balance

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### 4. First aid measures

- 4.1 After contact with the eyes: Immediately rinse eyes with running water for at least 15 minutes. Seek medical attention immediately.
- 4.2 After contact with the skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water.
- 4.3 After inhalation: If safe to do so, remove from exposure, give artificial respiration if required. Seek medical attention immediately.
- 4.4 Ingestion: If conscious, give 3-4 glasses of water. Call the poison centre 0800 POISON (0800 764-766) or a doctor. DO NOT INDUCE VOMITING.

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### 5. Fire fighting measures

- 5.1 Extinguishing media:  
Suitable: all
- 5.2 Special Fire Fighting Procedures:  
This product is not flammable.
- 5.3 Unusual Fire and explosion hazards: Nil  
Hazardous products of combustion: Development of toxic fumes possible if involved in a fire.

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### 6. Accidental release measures

- 6.1 Spills:  
Wear appropriate protective equipment and respirator where mists or vapours of unknown concentrations may be generated.  
Do not allow the product to enter drains, sewers or waterways. Remove leaking containers to a detached area. Bund spill area. Absorb spilled product with inert material (e.g. sand, earth etc.)
- 6.2 Disposal: Dispose of waste in accordance with local authority bylaws.
- 6.3 Cleaning of Equipment: Clean with water.

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### 7. Handling and storage

- 7.1 Handling:  
Measures to prevent fire and explosion: No special measures required.  
Avoid eye contact. Wear chemical type goggles or safety glasses.
  - 7.2 Storage:  
Store the material in original container in a cool well ventilated, secure area out of reach of children and domestic animals. Do not contaminate drinking water, food or feed by storage or disposal.
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**8. Exposure controls/personal protection**

- 8.1** Ingestion: Prevent eating, drinking and tobacco use in areas where there is potential for exposure to the material. Wash thoroughly before meals and after work.
- 8.2** Ventilation: In processes where mists or vapours may be generated, proper ventilation must be provided in accordance with good ventilation practices. Avoid inhalation of spray mists.
- 8.3** Personal protective equipment:  
Eye protection: Safety glasses/ goggles  
Hand protection: PVC gloves  
Skin and body protection: Protective clothing.  
Respiratory protection: Approved respirator when mist may be generated.

**9. Physical and chemical properties**

- |            |                        |                                       |
|------------|------------------------|---------------------------------------|
| <b>9.1</b> | Form:                  | Liquid                                |
| <b>9.2</b> | Colour:                | Dark soupy                            |
| <b>9.3</b> | Boiling Point:         | > 100°C                               |
| <b>9.4</b> | Flash point (°C):      | Not flammable                         |
| <b>9.5</b> | Density at 20°C, g/ml: | 1.27 – 1.29                           |
| <b>9.6</b> | Solubility in water:   | Soluble with water in all proportions |
| <b>9.7</b> | pH:                    | 6.8 – 7.1                             |

**10. Stability and reactivity**

- |             |                                   |   |
|-------------|-----------------------------------|---|
| <b>10.1</b> | Stability:                        | Stable under normal operating conditions.     |
| <b>10.2</b> | Materials to avoid:               | Nil.  |
| <b>10.3</b> | Hazardous decomposition products: | May produce fumes if heated to decomposition. |
| <b>10.4</b> | Dangerous reactions:              | None.   |

**11. Toxicological information**

- 11.1** Acute oral toxicity (Octhilinone a.i.) – LD50 rat 760 mg/kg.  
Acute oral toxicity (DDAC a.i.) - LD50 rat 450 mg/kg  
LD50 rat (male) 412 mg/kg  
LD50 rat (female) 292 mg/kg  
Acute dermal toxicity (Octhilinone a.i.) - LD50 rabbit 690 mg/kg.  
Acute dermal toxicity (DDAC a.i.) - LD50 rabbit 3342 mg/kg.
- 11.2** Skin Irritation (DDAC a.i.): Rabbit: severe irritant – Did not clear by day 7 post dose
- 11.3** Eye irritation (DDAC a.i.): Rabbit: extreme irritant – Did not clear by day 7 post dose
- 11.4** Sensitisation (Octhilinone a.i.): Possible by skin contact.

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### 12. Ecological Information

12.1 Persistence: Not expected to bioaccumulate as components are biodegradable.

12.2 Aquatic toxicity: For Octhilinone - LC<sub>50</sub> (Rainbow trout -96 hour): 0.047mg/l a.i.  
- LC<sub>50</sub> (Bluegill sunfish - 96 hour): 0.18 mg/l a.i.  
- LC<sub>50</sub> (Daphnia - 48hour): 0.32 mg/l a.i.,  
For DDAC: - LC<sub>50</sub> (salmon - 96 hour): 1.0 mg/l a.i.  
- LC<sub>50</sub> (bluegill sunfish - 96 hour): 0.32 mg/l a.i.  
- LC<sub>50</sub> (mysid shrimp - 96 hour): 0.069 mg/l a.i.  
- EC<sub>50</sub> (Daphnia magna - 48 hour): 0.94 mg/l a.i.

12.3 Avian toxicity: Unknown

12.4 Bees: LD<sub>50</sub> (oral): Unknown.

### 13. Disposal considerations

Dispose of waste: In accordance with local authority bylaws. May be washed with plenty of water onto soils

Dispose of empty container: Triple rinse the empty container adding rinsate to the spray tank. Recycle the container if possible otherwise crush and bury the container in a suitable landfill. Do not use the container for any other purpose.

### 14. Transport regulations.

**Dangerous Goods Class:** 9  
**UN No:** UN3082  
**Correct Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S (Didecyl Dimethyl Ammonium Chloride 16 g/litre  
Octhilinone 3.5 g/litre)  
MARINE POLLUTANT  
**HAZCHEM:** 2Z  
**Packing Group:** III

### 15. Regulatory information

HSNO Approval No: HSR002571 (Fertilisers [subsidiary hazard] Group Standard 2006)  
Hazardous Property Classification: 6.1D, 6.3A, 6.4A, 6.5B, 9.1B, 9.3C  
HSNO Controls: See <http://www.ermanz.govt.nz/search/registers.html>  
Fertiliser: No registration required.

### 16. Other information

This is a foliar fertiliser which must only be used according to the directions on the label.

This SDS supersedes all previous issues. It summarises our best knowledge of the health and safety hazard information of the product. All users should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. Since the actual use of this product is beyond the control of Omnia, we make no warranty, expressed or implied, concerning the use of this product. It is the responsibility of users to ascertain that the product is suitable for intended applications. (Last page)