



GROWTH REGULATOR

# Operandi®

**A plant growth regulator to reduce the risk of lodging in Wheat, Barley and Oats and to promote seed yield increases in Ryegrass seed crops**

Contains 250 g/L trinexapac-ethyl in the form of an emulsifiable concentrate

**WARNING // COMBUSTIBLE LIQUID // ECOTOXIC**

Keep out of the reach of children

Net Contents **10 L**



[agrisource.co.nz](http://agrisource.co.nz)



## GENERAL INFORMATION

**Operandi** is absorbed by the stems and leaves of ryegrass and cereals. **Operandi** does not have root or soil activity. **Operandi** is absorbed quickly into the plant tissue and rapidly translocated to the growing parts where the elongation of stem internodes is inhibited thereby reducing the stem height. This reduction in stem height reduces the risk of lodging in ryegrass and cereals. In ryegrass **Operandi** shortens the stem height, increases seed set and the time of lodging of crops is delayed. **Operandi** is rainfast within 2 hours of application. The addition of a surfactant is NOT necessary.

**Do not apply to amenity grass or turf.**

## DIRECTIONS FOR USE

### Mixing

Add the required amount directly into partly filled spray tank with agitation operating. Complete filling and maintain agitation until spraying is complete.

### Spray Drift

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area

### Maximum application rate

The maximum application rate of this substance is 200 g of active ingredient/ha equivalent to 800 mL/ha **Operandi**.

### COMPATIBILITY

**Operandi** is compatible with commonly used fungicides and herbicides in cereals. Note: an increase in effect may occur if applied in mixture with triazole fungicides under conditions of rapid vegetative growth. The application timing of herbicides mixed with **Operandi** may not be optimal for weed control. As formulations of other manufacturer's products are beyond the control of Agri Solutions Ltd and their agents, all mixtures should be tested prior to use.

**Note It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.**

### FIRST AID

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Rinse Mouth. DO NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. For advice call the National Poisons Centre 0800 Poison (0800 764 766) or a doctor immediately. IF exposed or concerned: Get medical advice/attention. If medical advice is needed, have product container or label at hand.

### EMERGENCY RESPONSE

In case of fire use mist, foam or CO<sub>2</sub>. Do not use high volume water jet to extinguish. In a transport emergency call 111, Police or Fire Brigade

**24 HOUR EMERGENCY RESPONSE 0800 CHEMCALL (0800 243 622)**

CROP	SITUATION	RATE	CRITICAL COMMENTS
Ryegrass seed crops (annual and perennial).	To promote seed yield by increasing seed set.	400-800 mL in 200-400 L of water/ha.	Apply at the GS31-32 growth stage; i.e. when the 2nd node is visible on the main tillers and the majority of the other tillers have the 1st node detectable above ground level. The higher rate 0.5 of 800 mL is recommended on high fertility paddocks where there is no moisture stress e.g stress or insect damage.
Wheat, Barley, Oats	To reduce the risk of lodging.	400 mL in 200 L of water/ha.	Apply at the beginning of stem elongation, as the 1st node becomes visible – (GS31). <b>Operandi</b> should be applied to actively growing cereal crops NOT suffering from disease, drought stress, insect damage or nutrient deficiency. NOTE: The recommended dose of <b>Operandi</b> may cause severe stunting in oats, however final yield should be unaffected.

## WITHHOLDING PERIODS

Ryegrass.....42 days

## CONDITIONS OF SUPPLY

All goods supplied by us are produced under rigid quality control procedures which assure the purchaser that at the time of sale they are physically suitable for use in the manner stated. However, to the extent permitted by law, buyers and/or users of the goods accept that neither the manufacturer, Agri Solutions Ltd as registrant, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these goods.

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See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions

BATCH NO:

### REGISTRANT

Agri Solutions Ltd  
45 Kitchener Road  
Pukekohe 2120

### DISTRIBUTOR

AgriSource (2000) Limited  
45 Kitchener Road, Pukekohe 2120  
09 237 0442 · [www.agriSource.co.nz](http://www.agriSource.co.nz)

DATE OF  
MANUFACTURE:

# READ LABEL COMPLETELY BEFORE USE



## WARNING

Causes serious eye irritation.

## FLAMMABLE

Combustible liquid. Keep away for hot surfaces and sources of ignition. No smoking.

## ECOTOXICITY

Very toxic to aquatic life with long lasting effects. Hazardous to terrestrial vertebrates. Do not apply onto or into water. Collect spillage.

## RECORD KEEPING

Where 3 kg or more of the substance is applied within 24 hours, in a place where the substance is likely to enter air or water and leave the application area, a PCBU with management or control of the substance must ensure that a written record is kept of each application of the substance. Refer to Part 4 Clause 48 of the Hazardous Substances (Hazardous Property Controls) notice 2017 for details of information that must be recorded.

## QUALIFICATIONS HANDLER

Anyone who mixes, loads, or applies this product, either by air or ground based methods, is required to be suitably qualified. Refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) notice 2017 for a list of suitable qualifications.

## HANDLING PRECAUTIONS - FOR WORKPLACE USE ONLY

**Personal Protection:** Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe fumes, mist, vapours or spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. When mixing or applying, avoid contact with skin and eyes. Wear full protective clothing, gloves and goggles. Wash hands and face before meals and after work. Wash protective clothing after work. Contaminated work clothing should not be allowed out of the workplace.

**Equipment:** Apply with well-maintained and calibrated spray equipment. **Operandi** can be applied with conventional ground or aerial spraying equipment.

**Cleaning:** Flush spray equipment thoroughly with clean water after use.

**Storage:** Store in the original, tightly closed container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals. Secondary containment and emergency response plans are required where 100 L or more of this product are stored. Refer to the product SDS for further information.

**Shelf Life:** When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

**Spillage:** Move non-essential people from the area. Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Sweep up solids without creating dust. Wash area with water and absorb with further inert material. Dispose of waste safely (such as to a suitable landfill).

**Product Disposal:** Dispose of unwanted product by use by another operator strictly in accordance with label directions.

**Container Disposal:** Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.

**Transport:** DO NOT carry this product on a passenger service vehicle.

**Safety Data Sheet:** Additional information is provided in the SDS available from your supplier or [www.agrisource.co.nz](http://www.agrisource.co.nz)

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