

As a member of the AgRecovery scheme, Orion AgriScience encourage their customers to recycle empty plastic agrichemical containers.



CONTACT INFORMATION

Northern North Island - Te 0ti Kaihe 021 337 977

Southern North Island - Tony Polkinghorne 021 671 616

North Island East Coast and Marlborough 022 375 9977

Canterbury and West Coast - Chris Johnston 021 281 3285

- Luke Holmes

HEAD OFFICE

Southern South Island



Orion AgriScience Ltd.

Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch 8053. PO Box 39071 Harewood, Christchurch 8545

0800 674 6627

www.orionagriscience.co.nz



Download your FREE Orion mobile app now!









CONTENTS

3 — prior to planting

5 — pre-emergent weed control in maize

6-8 — post-emergent weed control in maize

9 — maize partner products

10-11 — maize schematic

COMPANY OVERVIEW

Orion AgriScience is a leading supplier of crop protection products in New Zealand. Our focus is delivering practical and effective solutions to better meet the needs of the farming industry.

With an extensive global supply network Orion AgriScience searches out the best products to help New Zealand farmers and growers maintain their competitive edge.

Orion AgriScience products are designed for New Zealand and trusted to perform under local conditions.

PROVEN CONTROLS TO IMPROVE YIELDS.

Competition from weeds can have a devastating effect on crop yield. The key to success is to control weeds during the early stages of crop establishment. Orion AgriScience has the products, the experience and advice to get the best from your crop.

BACKUP & SUPPORT

With experienced field staff covering the length and breadth of the country Orion AgriScience has a support team that is committed to product backup and service. For general enquiries **0800 6746627** is a convenient free phone service. For more specialised local advice and recommendations contact your local Orion AgriScience Territory Manager. For details see back cover or visit **www.orionagriscience.co.nz**.



PRIOR TO PLANTING

Glyphosate use for spray out

Quality land preparation is a key factor in establishing a good maize crop.

Use one of Orion's quality Glyphosate in spring to clean up unwanted weeds and pasture prior to cultivation.

The use of Glyphosate pre-planting gives extended grazing and lessens the time interval between the previous crop and this seasons maize crop.

Glyphosate rates will depend on the strength of the Orion product being used, always refer to label.

GLYPHOSATE

Sizes: 20L, 200L, 1000L

DEAL™ 510: Premium high strength Glyphosate

Active Ingredient: 510g/litre glyphosate as the isopropylamine salt in the form of a soluble concentrate.

DEAL™ 360: Quality 360 Glyphosate product

Active Ingredient: 360 g/litre glyphosate as the isopropylamine salt in the form of a soluble concentrate.

Penetrants/surfactants to be used with Glyphosate

SILMAXXTM

Contains: organosilicone penetrant / surfactant

Size: 5L, 20L

Silmaxx is a specialized organosilicon surfactant/penetrant. Its primary use is to aid Glyphosate for the control of ryegrass and increase the rain fasteness.

Use rate: 100mLs per 100ltrs.



PRE-EMERGENT WEED CONTROL IN MAIZE.

SYLON® 840 - High performance

Active Ingredient: 840 g/litre acetochlor in the form of an emulsifiable concentrate. Sizes: 20L. 100L. 200L. 1000L

SYLON is a hydrocarbon solvent free formulation unlike any other product on the market. The high level of active ingredient (840 g/litre acetochlor) and specialised co-formulants guarantee an extremely high level of weed control and crop safety - ensuring optimum

Features;

- Contains a safener for those situations where it may be preferred
- Low odour, hydrocarbon solvent free formulation
- Unique binary emulsification system gives long lasting stability in the spray tank Use Rate: 3 L/ha

ACE™ - Cost effective

Active Ingredient: 840 g/litre acetochlor in the form of an emulsifiable concentrate Sizes: 20L, 200L, 1000L

ACE provides cost-effective long lasting weed control in both silage and grain maize crops. Features:

- Cost effective
- Formulated for New Zealand conditions
- Long established with a good reputation

Use Rate: 3 L/ha

CUTTER™ SAFE/CUTTER™ - Two in one

Active Ingredient: 840 g/litre acetochlor and 6 g/litre alpha-cypermethrin in the form of an emulsifiable concentrate

Sizes: 201, 2001, 10001

CUTTER SAFE/CUTTER provides the best of both worlds combining a long lasting pre-emergent herbicide with an insecticide co-formulated in one product.

- Two in one pre-emerge weed control plus insecticide
- Cost effective
- Formulated for New Zealand conditions

Use Rate: 3 L/ha

DOMINATOR® - For broadleaf weed control

Active Ingredient: Contains 480g/litre mesotrione in the form of a suspension concentrate Sizes: 4L, 10L, 20L

DOMINATOR represents a new generation of herbicides based on callistemon plant technology and developed within New Zealand for pre-emergent broadleaf weed control in grain and silage maize.

Features:

- Unprecedented broadleaf weed control
- 21st century environmental profile with exceptional crop safety and yields Use Rate: 450mL/ha

ATRAFLOW™/ATRAGRANZ™ - General broadleaf control

Atraflow Active Ingredient: 500 g/litre atrazine in the form of a suspension concentrate.

Atragranz Active Ingredient: 900g/kg of atrazine in the form of a water dispersible granule.

ATRAFLOW/ATRANGRANZ offers added flexibility for the control of a wide range of broadleaf weeds.

- Timing flexibility can be used in mixture with a pre-emergent grass herbicide such as ACE or SYLON or CUTTER SAFE/CUTTER
- Low cost weed control
- Synergistic partner for post-emergent DOMINATOR

Use Rate: 3 L/ha ATRAFLOW or 1.7kg/ha ATRAGRANZ



POST-EMERGENT WEED CONTROL IN MAIZE.

DOMINATOR® - For broadleaf weed control

Active Ingredient: Contains 480g/litre mesotrione in the form of a suspension concentrate Sizes: 4L, 10L, 20L

DOMINATOR represents a new generation of herbicides based on callistemon plant technology and developed within New Zealand for post-emergent broadleaf weed control in grain and silage maize.

Features:

Dominator

orion.

Synoil adjuvant

- Unprecedented broadleaf weed control
- Timing flexibility
- 21st century environmental profile with exceptional crop safety and yields
- Works synergistically with ATRAFLOW/ATRAGRANZ, for increased performance
- Must be used with SYNOIL

Use Rate: 200mL/ha

SYNOIL™ - Must be used with DOMINATOR

Contains: A proprietary blend of refined white oil and polyglycol fatty acid esters. Sizes: 51, 201

SYNOIL enhances the uptake and spreading of DOMINATOR and some other herbicides, insecticides and fungicides, especially in marginal conditions where plants are hairy, waxy, dusty or weather hardened. It also acts as an anti-evaporant.

SYNOIL must be added when using DOMINATOR

Use Rate: 1L/ha

ORION NICO ULTRA - Tackles hard to kill weeds - Suppresses Mercer grass

Active Ingredient: 60 g/litre of nicosulfuron plus 480 g/litre methylated seed oil adjuvant in the form of an oil in water dispersion

Sizes: 10L

ORION NICO ULTRA can be mixed with ATRAFLOW or ATRAGRANZ and BANVEL for greater broadleaf control. Provides suppression of Mercer grass.

eatures:

- Safely applied to actively growing maize crops up to 8 leaf stage
- Control of wild oats
- Post-emergent control of summer grasses and couch
- Check label for weed activity range
- Formulation includes built-in adjuvant

Use Rate: 1 – 2L/ha

POST-EMERGENT WEED CONTROL IN MAIZE.

ATRAFLOW™ - General broadleaf control

Active Ingredient: 500 g/litre atrazine in the form of a suspension concentrate.

Sizes: 20L, 200

ATRAFLOW offers added flexibility for the control of a wide range of broadleaf weeds. Features;

- Synergistic partner for DOMINATOR
- Low cost weed control
- Can be mixed with BANDIT where triazine resistant weeds are present

Use Rate: 1 - 1.5L/ha (with DOMINATOR)

ATRAGRANZ® - Less packaging waste

Active Ingredient: 900g/kg of atrazine in the form of a water dispersible granule.

Sizes: 10kg

ATRAGRANZ is a high strength granular atrazine formulation.

Features:

- Less packaging
- Low cost weed control
- Synergistic partner for DOMINATOR

Use Rate: 0.5 – 0.8Kg/ha (with DOMINATOR)

VOID™ - Deals to thistles and volunteer potatoes

Active Ingredient: 300g/litre clopyralid as the amine salt in the form of a soluble concentrate.

Sizes: 1L, 5L, 201

VOID gives good control of thistles, Bathurst burr and volunteer potatoes. Can be applied from the 3 leaf stage through until the crop closes over.

Features;

- Compatible with other broadleaf herbicides such as ATRAFLOW/ATRAGRANZ
- Safe to the crop

Use Rate: 0.5 - 1L/ha

BANDIT® Herbicide

Active Ingredient: 480 g/litre dicamba as the dimethylamine salt in the form of a soluble concentrate

Sizes: 5L, 20L

A selective herbicide for control of certain hard to kill broadleaf weeds in conservation tillage programs and in cereals, maize, some forage brassicas, waste areas and spot treatment in pastures.

Features;

- Can be mixed with ATRAFLOW/ATRAGRANZ for residual broadleaf weed control
- Alternative mode of action
- Wide spectrum broadleaf weed control

Use Rate: 420 - 625mL/ha



MAIZE PARTNER PRODUCTS.

DUSK® - Long lasting slug and snail control

Active Ingredient: 54g/Kg of iron EDTA complex in the form of a granular bait. Sizes: 10kg, 20kg, 125kg

Features:

- Non toxic
- Core based granule with iron complex active ingredient
- Out performs most competitors
- · Fast acting with good residual activity
- Stable in adverse weather conditions waterproof
- High coverage

Use Rate: 10 - 15kg/ha

MEGAWET™ - Specialised water rate reducer for use with partner herbicides

Active Ingredient: Polyalkoxylate siloxane.

Sizes: 20L

Features;

- Advanced adjuvant that enhances spray coverage, deposition and retention
- Allows lower water rate (100 L/ha) to be used without compromising weed control.
- Increases spraying area per tank less down time to refill
- For post-emergent spraying only (Not pre-emergent)

Use Rate: 100mL per 100 L

CYPHER® - Highly active synthetic pyrethroid insecticide

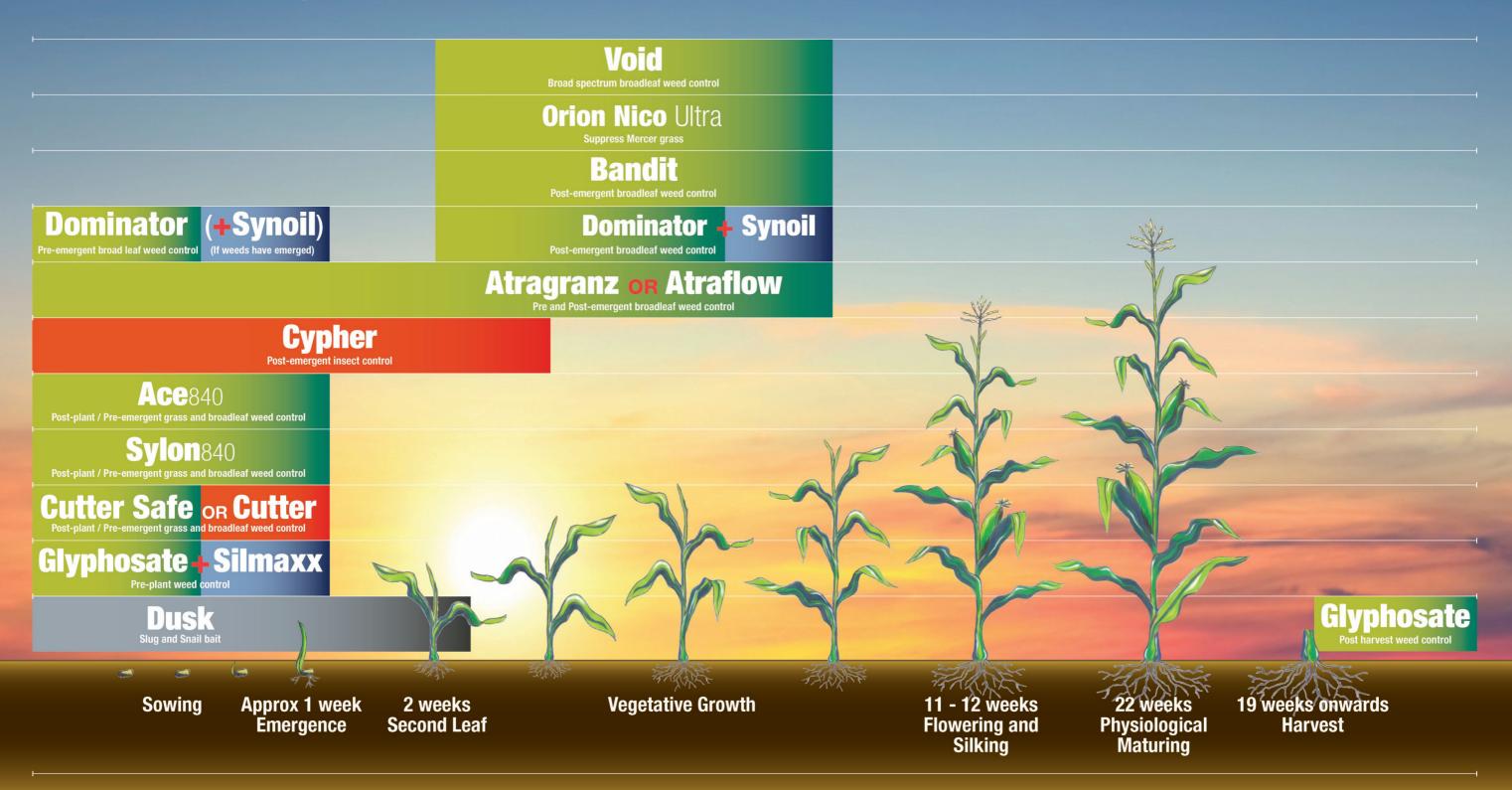
Active Ingredient: 100 g/litre alpha-cypermethrin in the form of an emulsifiable concentrate Sizes: 1L, 5L, 20L

Features:

- Fast acting with good residual activity up to 3 weeks
- Effective against a wide spectrum of pests
- Registered for use in a wide range of situations including pasture, field crops, fruit, vegetables, brassicas, and public health
- Provides economical control of damaging insect pests

Use Rate:150 - 200ml/ha

Protecting your Maize Crop every step of the way.



TM ACE, ATRAFLOW, CUTTER, DEAL, DUSK, MEGAWET, SILMAXX, SYNOIL, VOID are Trade Marks of Orion AgriScience Ltd. ® ATRAGRANZ, BANDIT, CYPHER, DOMINATOR, SYLON are Registered Trade Marks of Orion AgriScience Ltd.

Ace, Atraflow, Atragranz, Bandit, Cypher, Cutter, Deal 510, Dominator, Dusk, Sylon, Void are registered pursuant to the ACVM Act 1997. Nos. P7218, P7775, P7214, P7163, P7425, P7409, P8850, P7340, P9168, P8179, P5817, P5937. See www.foodsafety.govt.nz for registration conditions.

