



**Mateno<sup>®</sup>**  
**Complete**

# **MATENO<sup>®</sup> COMPLETE**

## **GETTING THE BEST POSSIBLE RESULTS IN PRE-SOWING (IBS) APPLICATIONS**

### **MATENO COMPLETE**

Mateno Complete Herbicide is a unique and complementary combination of three powerful active ingredients and provides reliable and long-residual control of specific weeds. When used pre-sowing (IBS) Mateno Complete has activity on a broad spectrum of grass and broadleaf weeds in wheat (not durum wheat) and in barley.

<b>Active Ingredients</b>	Aclonifen, pyroxasulfone and diflufenican
<b>Crops</b>	Wheat (not durum wheat) and barley
<b>Weed Targets (wheat) - IBS application timing</b>	<b>Grass:</b> Annual ryegrass, barley grass, silver grass, annual phalaris, great brome (suppression only)*, wild oats (suppression only)* and toad rush <b>Broadleaf:</b> Stonecrop, Indian hedge mustard*, capeweed*, denseflower fumitory*, deadnettle*
<b>Weed Targets (barley) - IBS application timing</b>	<b>Grass:</b> Annual ryegrass, barley grass, silver grass and toad rush <b>Broadleaf:</b> Indian hedge mustard* and stonecrop*
<b>Application Rate</b>	0.75 L/ha - 1.0 L/ha (wheat) and 0.75 L/ha (barley)
<b>Seeding System</b>	Suitable for use with knife point and press wheel combinations in wheat or barley or suitable disc seeding systems in wheat only
<b>IBS Incorporation Period</b>	Up to 7 days
<b>Adjuvant</b>	If mixing, refer to the adjuvant and other directions for use of the tank mix partner
<b>Formulation</b>	Suspension concentrate (SC)
<b>Maximum Number of Applications</b>	1 per crop, growing season or calendar year

\* Suppression only

# CHECKLIST FOR PRE-SOWING (IBS) APPLICATION

- Apply Mateno Complete IBS in barley and wheat (except durum wheat) only**

When seeding, avoid throwing treated soil into adjacent crop rows, avoid leaving furrows open and avoid shallow seed depth. See product label for more detail about crop safety.
- Important crop safety information when using Mateno Complete IBS in barley**

The margin of crop safety when using Mateno Complete in barley is lower than it is in wheat. In most cases barley crops will be unaffected or minimally affected by Mateno Complete. In certain situations, there may be severe reductions in barley crop growth. Unfavourable crop effects tend to be greatest when either a high intensity rainfall event follows soon after sowing of barley or soaking rainfall during the early stage of the growing season causes movement of product into the crop seed/root zone.

**The following measures may reduce the movement of product into the crop seed zone:**

  - Sow barley as soon as practicable after application of Mateno Complete.
  - Barley should only be sown using a tined seeder with knife points & press wheel closers following application of Mateno Complete.
  - Do not use Mateno Complete where barley is to be planted with disc seeding systems.
  - Avoid using Mateno Complete prior to planting barley in a dry seeding situation.
  - Avoid sowing situations/practices that result in stubble drag, treated soil moving into crop rows, or furrow collapse.

**The following measures may help to reduce the extent of crop damage to barley sown following the application of Mateno Complete:**

  - Avoid using Mateno Complete in soils prone to waterlogging.
  - Do not use Mateno Complete in irrigated barley.
  - Avoid using Mateno Complete in conjunction with other pre-emergence herbicides, or in tank-mix with other products known to cause crop damage, prior to planting barley.
  - Use good quality barley seed.
  - Do not use barley seed treated with fungicide seed treatments that may shorten the coleoptile and/or delay emergence.

ALWAYS CONSULT THE PRODUCT LABEL AND YOUR MATENO COMPLETE AGENT in relation to the appropriate use of Mateno Complete.
- Apply Mateno Complete at the rates recommended on the label**

In wheat Mateno Complete can be applied at use rates between 750 mL/ha and up to 1.0 L/ha. In barley Mateno Complete can be applied at 750 mL/ha only. Applying Mateno Complete at rates below the minimum label rates will compromise weed control and increase the risk of developing herbicide-resistant weeds.
- Use a water rate of 70-100 L/ha and apply with nozzles delivering a MEDIUM quality spray pattern**

Water volumes above 80 L/ha may improve weed control in some situations, such as high stubble loads and will improve physical compatibility in tank mixes.
- Use 50 mesh (or coarser) in-line filters**

This may result in reduced risk of filter blockage.
- When applying IBS, apply Mateno Complete evenly to uncultivated soil, allowing good coverage of the entire soil surface, allowing good soil coverage**

Cultivation before an application of Mateno Complete will bury weed seeds and will usually result in reduced weed control. Applying Mateno Complete to ridged or excessively cloddy soil or in situations of high stubble, plant residue or other ground cover, can also negatively affect the weed control result.
- Incorporate Mateno Complete by sowing (IBS) using either knife points and press wheels in barley or wheat or disc seeders in wheat only within 7 days of application**

Sow as soon as practicable after applying Mateno Complete. This will maximise product efficacy and crop safety. Disc seeding systems that result in minimal soil disturbance and allow the concentration of herbicide in the seeding slot following rainfall will substantially increase the risk of crop damage and should be avoided.
- Sufficient rainfall is required within 7 - 10 days after application to facilitate uptake of Mateno Complete by germinating weed seeds**

Note, "sufficient rainfall" can vary with soil type and existing level of soil moisture. Conversely, very heavy rainfall after Mateno Complete application, particularly on sandy soils, may cause movement of the herbicide out of the weed seed zone and result in reduced weed control. Do not apply Mateno Complete if heavy rainfall has been forecast within 48 hours.
- Use Mateno Complete with or in rotation with other chemical and non-chemical control options**

Mateno Complete is a co-formulation of 3 active ingredients from 3 different herbicide modes of action. Using multiple modes of action, where the herbicide in each different mode of action is reasonably effective on the target weed, has been proven to delay the development of herbicide resistance of that weed and forms an important part of the WeedSmart "Big 6" resistance management strategy.
- Thoroughly clean spraying equipment immediately after use**

Cleaning should occur immediately following the last application of Mateno Complete, or if the sprayer will not be used for several hours. When tank mixing Mateno Complete with another product, use the more rigorous recommended clean-up of the products in the tank mix.
- Avoid applying Mateno Complete prior to planting barley where a product containing pyroxasulfone (e.g. Mateno Complete or Sakura®) has been applied the previous year**

Crop damage may be more severe in some circumstances.
- Ensure emerged weeds are controlled by an effective knockdown herbicide before planting the crop**

Weeds that are not controlled by a knockdown at sowing may not be controlled by Mateno Complete.
- Mateno Complete is a suspension concentrate (SC) formulation and therefore may settle out of suspension over time and should be re-homogenised prior to use**

For 100 L packs, we recommend using the Pro-Blend® Closed Mixing System ([micromatic.com/pro-blend](http://micromatic.com/pro-blend)). Where possible use the entire pack in a single load.
- When mixing, ensure good tank agitation, and add Mateno Complete to the spray tank in the correct mixing order, ensuring it is fully dispersed before adding other products**

It is critical to maintain effective tank agitation before, and at all times during mixing and spraying. As Mateno Complete is a suspension concentrate (SC) formulation, it should be added to the spray tank only after adding having added 70% of the total water requirement, any conditioners, and any dry products (e.g. WG formulations). Shake or mix drums thoroughly prior to adding and

rinse empty drums into the tank. Allow at least 10 minutes of constant agitation after adding Mateno Complete and before adding the next tank-mix partner in the sequence. Check all products for compatibility prior to mixing. See product label and [matenocomplete.com.au](http://matenocomplete.com.au) for further details.

For further advice visit [matenocomplete.com.au](http://matenocomplete.com.au) or contact your agronomist.

Always read the label for full instructions.

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