

BASF

We create chemistry

Integral[®] Pro

MAPP 18510

A flowable concentrate formulation containing 2.2×10^{10} cfu/mL (6.12% w/w) *Bacillus amyloliquefaciens* strain MBI600 for use as a seed treatment in winter oilseed rape for control of *Phoma lingam*/stem canker and to reduce damage caused by cabbage stem flea beetle.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

SAFETY PRECAUTIONS

Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT* when bagging treated seed.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT* when handling the concentrate, handling contaminated surfaces or handling freshly treated material. Disposable filtering facemask/respirator to at least EN149 FFP3 or equivalent. However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before eating or drinking and after work.

DO NOT HANDLE seed unnecessarily.

Environmental protection

Do not contaminate water with the product or its container.

Do not clean application equipment near surface water.

Avoid contamination via drains from farmyards and roads.

TO PROTECT BIRDS/MAMMALS, treated seed should not be left on the soil surface.

Bury or remove spillages.

Storage and disposal

EMPTY CONTAINER COMPLETELY and dispose of safely. OPEN THE CONTAINER ONLY AS DIRECTED.

Do not re-use container for any other purpose.

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

KEEP TREATED SEED SECURE from people, domestic stock/pets and wildlife at all times during storage and use.

BURY OR REMOVE SPILLAGES.

DO NOT USE TREATED SEED as food or feed.

DO NOT RE-USE SACKS OR CONTAINERS THAT HAVE BEEN USED FOR TREATED SEED for food or feed.

This label is compliant with the CPA Voluntary Initiative Guidance

10 L

Supplied by: BASF plc, 4th and 5th Floors, 2 Stockport Exchange, Railway Road, Stockport SK1 3GG,
Telephone: 0161 475 3000

Emergency Information (24 hours freephone): 0049 180 227 3112
Technical Enquiries: 0845 602 2553 (office hours)

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Integral® Pro

A flowable concentrate formulation containing 2.2 x10¹⁰ cfu/mL (6.12% w/w) *Bacillus amyloliquefaciens* strain MBI600

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Contains *Bacillus amyloliquefaciens*. Micro-organisms may have the potential to provoke sensitising reactions.

To avoid risks to human health and the environment, comply with the instructions for use.

IMPORTANT INFORMATION

FOR USE ONLY AS AN PROFESSIONAL SEED TREATMENT

Crops: winter oilseed rape

Maximum individual dose: 1.6 liters of product/ tonne of seeds

Maximum number of treatments: 1 per batch

Latest time of application: Before drilling

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

Restrictions/Warnings

Check drill calibration before drilling seed treated with INTEGRAL PRO.

Do not treat grain with a moisture content exceeding 16% and do not allow the moisture content of treated seed to exceed 16%.

After treating, bag the seed immediately and keep the seed in a dry and draught free store.

It is important to achieve good even coverage on the seed to obtain reliable disease control.

The germination capacity should be checked prior to use and in the event of any minor effects a small change in sowing rate may be made.

Do not apply INTEGRAL PRO to cracked, split or sprouted seed.

Do not transfer pumps from one treatment to another. When changing formulations, wash out the pump, pipeline and tank with clean water, before use.

Keep container closed when not in use.

LABEL TREATED SEED with the appropriate precautions using printed sacks, labels or bag tags.

Disease control

CONSULT PROCESSOR BEFORE USING ON OILSEED RAPE GROWN FOR PROCESSING

INTEGRAL PRO provides control of the following diseases and stimulation of plant natural defences of winter oil seed rape:-

Pest/disease		Level of Control
Stem canker	<i>Phoma lingam</i>	Useful reduction. Levels of reduction can be variable and additional control measures maybe required.
Cabbage Stem, Flea beetle	<i>Psylliodes chrysocephala</i>	Stimulation of plant natural defences can provide a useful reduction of crop damage. Levels of reduction can be variable and additional control measures may be required.

Resistance Management

At the time of printing there are no records of resistance to INTEGRAL PRO known to us. *Bacillus amyloliquefaciens* is considered to be at low risk of resistance development.

Crop Specific Information

Rate of use

Crop	Application Rate Litres/Tonne seed
Winter oilseed rape	1.6

Mixing and Application

Application

Thoroughly shake or agitate before use to ensure homogenisation of the product. If this is not possible, carefully lie the pack on its side and roll gently for 3-5 revolutions. Failure to do so may result in undesirable product performance issues and uneven seed appearance. Empty clean containers can be disposed of as non-hazardous waste.

INTEGRAL PRO should be applied directly to the seed by a conventional seed treatment machine, preferably a BASF seed treatment machine at the rate given above. The product should be used from the original container, with the direct feed system fitted as a standard to the treatment equipment, utilising the aperture in the top of the container. The direct feed system only must be used to transfer the product.

Ensure that seed drill is appropriately calibrated before drilling seed treated with INTEGRAL PRO.

Information to be included on treated seed labels

THIS SEED HAS BEEN TREATED WITH INTEGRAL PRO (contains *Bacillus amyloliquefaciens* strain MBI 600).

WEAR SUITABLE PROTECTIVE GLOVES when handling treated seed, contaminated surfaces, during drilling operations or when dealing with spillages.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before meals and after work.

DO NOT HANDLE seed unnecessarily.

DO NOT APPLY TREATED SEED FROM THE AIR.

DO NOT USE TREATED SEED as food or feed.

DO NOT RE-USE SACKS OR CONTAINERS THAT HAVE BEEN USED FOR TREATED SEED for food or feed.

KEEP OUT OF REACH OF CHILDREN.

KEEP TREATED SEED SECURE from people, domestic stock/pets and wildlife at all times during storage and use.

TO PROTECT BIRDS/WILD MAMMALS, treated seed should not be left on the soil surface. Bury or remove spillages.

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The following does not form part of the authorised label text.

With many products there is a general risk of resistance developing to the active ingredients. For this reason a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimise any loss in activity the BASF recommended rate should in all events be adhered to.

Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other products, appearance of organisms resistant to active ingredients and spraying techniques. Under particular conditions a change in activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their mixing or use or the weather conditions during and after application, which may affect the performance of the material, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use; but nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of the Unfair Contract Terms Act 1977 or any similar applicable law.

Section 6 of the Health and Safety at Work Act

Additional Product Safety Information

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has "off-label" approval or is otherwise permitted under the Plant Protection Products Regulations.

The information on this label is based on the best available information including data from test results.

Safety Data Sheet

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



<http://www.agricentre.basf.co.uk/go/Integral-Pro/MSDS>

Alternatively, contact your supplier.

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Storage and disposal

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