



GROUP	5	HERBICIDE
GROUP	15	HERBICIDE

A residual herbicide for use as a pre-emergence selective herbicide, acting through root uptake, for the control of annual weeds in early and maincrop potatoes.

A water-dispersible granular formulation containing 24% w/w flufenacet and 17.5% w/w metribuzin

MAPP 17049

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

Bayer CropScience Limited,
230 Cambridge Science Park, Milton Road, Cambridge
CB4 0WB Telephone: 01223 226500

For 24 hour emergency information contact

Bayer CropScience Limited Telephone: 00800 1020 3333

SAFETY PRECAUTIONS

Operator Protection

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

Operators must wear suitable protective clothing (coveralls), suitable protective gloves and suitable respiratory protective equipment* when handling the product. *Disposable filtering facepiece respirator to at least EN149 FFP2 or equivalent.

Operators must wear suitable protective clothing (coveralls) and suitable protective gloves when handling contaminated surfaces.

Operators must wear suitable protective clothing (coveralls) when applying the product.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

AVOID ALL CONTACT BY MOUTH

DO NOT BREATHE SPRAY

WHEN USING DO NOT EAT, DRINK OR SMOKE

IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

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 aquatic organisms respect an unsprayed buffer zone to surface water

bodies in line with LERAP requirements. Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area. DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

Storage and disposal

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

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS

KEEP OUT OF REACH OF CHILDREN

EMPTY CONTAINER COMPLETELY and dispose of safely.

Safety Information

ARTIST

Contains 24% w/w flufenacet and 17.5% w/w metribuzin



WARNING

Harmful if swallowed

May cause an allergic skin reaction

Causes serious eye irritation

May cause damage to organs (nervous system) through prolonged or repeated exposure if swallowed

Very toxic to aquatic life with long lasting effects

Wear protective gloves/protective clothing/eye protection/face protection

IF exposed or concerned: Call a POISON CENTRE or doctor/physician

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

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

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

For use on:	Early and maincrop potatoes
Maximum individual dose:	2.5 kg product/hectare
Maximum total dose:	2.5 kg product/hectare/crop
Latest time of application:	Before crop emergence

Do not apply by hand-held equipment

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.

Artist is a water-dispersible granular formulation for use as a pre-emergence selective herbicide, acting through root uptake, for the control of annual weeds in early and maincrop potatoes.

RESTRICTIONS

Do NOT treat crops grown on sands. The maximum residue level for flufenacet is 0.15 mg/kg and must not be exceeded.

HERBICIDE RESISTANCE MANAGEMENT

When herbicides with the same mode of action are used repeatedly over several years in the same field, selection of resistant biotypes can take place. These can propagate and may become dominating. A weed species is considered to be resistant to a herbicide if it survives a correctly-applied treatment at the recommended dose. A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of cultural control measures. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer

Strains of some annual grasses (eg black-grass, wild-oats, and Italian ryegrass) have developed resistance to herbicides, which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer.

Populations of black-grass and Italian rye-grass with high levels of enhanced metabolism resistance will not be fully controlled.

WEEDS CONTROLLED

The following annual weeds are controlled by a pre-emergence application of Artist:

Broad-leaved weeds		Grass weeds
Black-bindweed (MS)	Knotgrass	Black-grass*
Common chickweed	Scented mayweed	Annual meadow-grass
Cleavers (MS)	Black nightshade (MS)	Italian rye-grass*
Red dead-nettle	Common orache	
Fat-hen	Field pansy	
Fool's parsley	Redshank	
Groundsel	Annual mercury	



MS = Moderately susceptible; higher levels of control are often achieved.

* When applied for control of other weeds, evidence shows that Artist also has activity against black-grass and Italian rye-grass.

Artist does not control perennial weeds. In situations where potatoes follow grass an autumn herbicide treatment or cultivations should be used to kill out the sward. Shoots appearing from any surviving turves may be controlled post-planting, but before crop emergence, using a suitable approved contact herbicide.

CROP SPECIFIC INFORMATION

The following potato varieties may be treated with Artist before crop emergence:

First Earlies

All commercially available varieties may be treated, except those grown on sands

Second Earlies

All commercially available varieties except Fambo and crops grown on sands. Do not treat Shepody grown on sands or very light soils.

Maincrop

All commercially available varieties except crops grown on sands. Do NOT treat Maris Piper or Sante grown on 'Sands' or 'Very Light Soils' (ADAS '85 Classification).

For crop safety information on specific potato varieties, please contact Bayer CropScience Limited on 0808 1969522, or your Artist distributor.

APPLICATION

Apply at a rate of 2.5 kg product/ha. Application must be before emergence of the crop and weeds. Apply as a **MEDIUM** quality spray (BCPC Classification) using not less than 200 litres water per hectare. Increase the water volume where any soil clods are unavoidably present. Artist may be applied on all soil types except 'Sands' (ADAS Classification).

For optimal weed control soils must be sufficiently moist at or shortly after application to ensure adequate uptake of active ingredient via the roots of germinating weed seedlings. Effectiveness will be reduced under dry soil conditions. Ridges should be well rounded with few clods. Cultivations should produce a soil tilth that requires no further improvement after planting. Cultivation after spraying will encourage weed germination and reduce the residual activity of Artist. On mineral soils with a high organic matter content and on peaty or organic soils the residual activity of Artist may be reduced. On stony or gravelly soils there is a risk of crop damage, especially if heavy rain falls soon after application.

Ensure Artist is applied evenly overall to both sides of potato ridges. Care must be taken to ensure that application takes place before crop emergence.

Artist sprayed onto any part of the potato plant will cause crop damage; therefore, it is essential that application is made before there are any visible signs of potato shoots emerging from the soil.

Take care to avoid spray drift onto neighbouring crops; particularly sensitive crops which include sugar beet, lettuce and brassicas.

MIXING

Half-fill the spray tank with clean water. Commence agitation. Steadily add the recommended quantity of Artist to the spray tank (pre-mixing is not necessary). Complete filling and maintain agitation of the suspension before and during spraying until the tank is empty. After spraying, thoroughly clean and flush out application machinery with a minimum of three rinses. Ensure that all traces of the product are removed.

SUCCEEDING CROPS

Before drilling or planting any succeeding crop the soil **MUST** be mouldboard ploughed to a depth of at least 15 cm taking care to ensure that the furrow slice is inverted. Ploughing should be carried out as soon as possible (preferably within 3-4 weeks) after lifting the potato crop, but certainly no later than the end of December.

In the Same Calendar Year

Provided at least 16 weeks have elapsed after the application of the recommended rate of Artist, the following crops may be grown; cereals or winter beans.

In West Cornwall, on soils with more than 5% organic matter, early potatoes which have been treated with the recommended rate of Artist may be followed by summer planted brassica crops provided that at least 14 weeks have elapsed from spraying, spring rainfall was normal, and that mouldboard ploughing takes place after potato lifting and before drilling or transplanting the brassica crop.

In the Following Calendar Year

Do not grow any vegetable brassica crop (including cauliflowers, calabrese, Brussels sprouts and cabbages) on silt soils in Lincolnshire, or lettuce and radish crops anywhere in the UK, on land treated with Artist in the previous year. Any other crop may be grown from spring onwards in the calendar year following use of Artist

COMPANY ADVISORY INFORMATION

Factors relating to product / crop agronomy

Certain weeds may develop resistance to Bayer products. Since such circumstances are beyond our control, Bayer CropScience will be under no liability for any resulting loss or damage whatsoever.

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To access the **Safety Data Sheet** for this product scan the code or use the link below:

www.cropscience.bayer.co.uk/artistsds
or alternatively contact your supplier

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