



NAUTILE [®] DG

FUNGICIDE

MAPP 16653

A water-dispersible granule containing 5% w/w cymoxanil and 68% w/w mancozeb for the control of potato blight



Warning

Harmful if swallowed.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

Very toxic to aquatic life with long lasting effects.

Obtain special instructions before use.

Avoid breathing dust/fume/gas/mist/vapours/spray.

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

Use personal protective equipment as required.

IF exposed or concerned: Get medical advice/attention.

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.

A1.1 NAUTILE DG UK 141216 NoA 0436-15

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IMPORTANT INFORMATION

FOR USE AS AN AGRICULTURAL FUNGICIDE

Crop	Maximum individual dose (kg product/ha)	Maximum number of treatments (per crop)	Latest time of application	Aquatic buffer zone distance (metres)
Potato	2	8	-	6

OTHER SPECIFIC RESTRICTIONS:

1. When used on crops/situations with a greater than 5m aquatic buffer zone, this product must not be applied via hand-held equipment.
2. A minimum interval of 7 days must be observed between applications.
3. The maximum concentration must not exceed 2kg of product per 300 litres water.

**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.**

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), SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT* when handling the concentrate. *Disposable filtering facepiece respirator to at least EN149 FFP2 or equivalent. WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

However, if 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. DO NOT BREATHE SPRAY.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY with plenty of water and seek medical advice.

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

ENVIRONMENTAL PROTECTION

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies as specified for the crop. HORIZONTAL BOOM SPRAYERS MUST BE FITTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY.

Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE Chemicals Regulation Directorate's website. Maintain three star operating conditions until 30m from the top of the bank of any surface water bodies.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within the distance specified for the crop to the top of the bank of a static or flowing water body, or within 1m of the top of a ditch which is dry at the time of application. Aim spray away from water.

NOTE: BUFFER ZONES OF MORE THAN 5M CANNOT BE REDUCED UNDER THE LOCAL ENVIRONMENT RISK ASSESSMENT FOR PESTICIDES (LERAP) SCHEME.

The statutory buffer zone must be maintained and the distance recorded in Section A of the LERAP record form. The LERAP record form must be kept available for three years.

RISK TO NON-TARGET INSECTS OR OTHER ARTHROPODS. See Directions for use.

Do not contaminate surface waters or ditches with chemical or used container. Do not clean application equipment near surface water.

Avoid contamination via drains from farmyards and roads.

STORAGE AND DISPOSAL

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

EMPTY CONTAINER COMPLETELY and dispose of safely. KEEP AWAY FROM FIRE AND SPARKS.

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.

NAUTILE DG is for use on potatoes only.

Disease controlled:

Potato blight (*Phytophthora infestans*)

CROP SPECIFIC INFORMATION

Application Rate: 1.8 - 2kg product/ha. Maximum control is expected when the maximum rate of the product is used, but reduced dose rates (from 2 to 1.8 kg/ha) may bring a satisfying control under limited disease pressure and when the product is applied with the minimum interval of 7 days between applications. Dose reduction does not allow either increasing the maximal number of applications nor reduction of the pre harvest interval.

Timing

Spray at NAUTILE DG at first risk of infection. Otherwise, spray as the crop meets within the rows. According to the disease incidence and weather conditions repeat at 7 - 14 day intervals. The longer interval is recommended under dry conditions. Under the following conditions reduce the spray interval to 7 - 10 days:

- On irrigated crops.
- On very susceptible varieties e.g. Russet Burbanks.
- When active blight is present in areas on crops, dumps or volunteers early in the season.
- When the weather favours very rapid disease development.

Reduce the spray to 7 day intervals under exceptional circumstances.

Do not enter the treated area before the crop is completely dry of the applied mixture.

Spray until the haulm dies down or is desiccated.

Varieties

All varieties of early and maincrop potatoes may be treated. On crops grown for processing consult your processor before use.

Water Volumes

The maximum concentration must not exceed 2kg of product per 300 litres water. Apply as a MEDIUM quality spray (as defined by BCPC).

RESISTANCE MANAGEMENT

When fungicides with the same mode of action are used repeatedly over several years in the same field, naturally occurring less sensitive strains may survive, propagate and become dominant in that field.

It is therefore advised that wherever possible spray programs should include fungicides with differing modes of action.

FOLLOWING CROPS

Any crop may be sown after a crop is treated with NAUTILE DG.

MIXING

NAUTILE DG may be added directly to the spray tank half filled with the required quantity of water.

With the agitator working fill the remainder of the water. Maintain agitation during spraying.

TANK CLEANING

Growers should consult manufacturer's guidance for washing procedures for their equipment, and use a combination of triple rinsing and agitation with clean water. Equipment washing should be disposed of safely following the Code of Practice for Using Plant Protection Products and relevant Environment Agency Guidance.

GUIDANCE RELATING TO PRODUCT USE

- Effectiveness using three star drift reduction technology may be reduced.
- Avoid spraying within 5m of the field boundary to reduce effects on non-target insects or other arthropods.
- Risk of infection from potato blight can be when an official blight warning has been issued or a Blight Infection Period (Smith Period) has occurred. Apply if there is risk of infection from potato blight, when an official blight warning has been issued or a Blight Infection Period (Smith Period) has occurred.
- It is only permitted to spray at 7 day intervals under exceptional circumstances when blight risk is high and rain is forecast at the time the next 10 day spray application is due.
- Do not keep open pack from one season to another as this may reduce the effectiveness of the fungicide and may create vapours which may be flammable.

CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable, however, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during and after application which may affect the performance of the goods, 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 or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. Our staff or agents cannot vary these conditions whether or not they supervise or assist in the use of such goods. Brand names used in this label may be registered trademarks of UPL Europe Ltd, or other manufacturers in which propriety rights may exist.

To access the Safety Data Sheet for NAUTILE DG please use the link below or scan the code.



uk.uponline.com/cropproductportfolio

Alternatively, contact your local supplier.