

Emesto[®]Prime

Net contents : 1 – 20 L

Fungicide

in-furrow fungicide for the control of various soil borne diseases in potatoes.

Contains 240 g/L penflufen in the form of a flowable concentrate.

Registered pursuant to the ACVM Act 1997, No P9916
See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSNO Act 1996, No HSR101587
See www.epa.govt.nz for approval conditions

DG Information



UN 3082
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(PENFLUFEN SOLUTION)
PACKING GROUP III
CLASS 9
HAZCHEM CODE 3Z

IN A TRANSPORT EMERGENCY DIAL 111 POLICE OR FIRE BRIGADE



WARNING
KEEP OUT OF REACH OF CHILDREN
HSNO Classifications:



Very toxic to aquatic life with long lasting effects

Also contains 1,2-benzisothiazolin-3-one, 5-Chlor-2-methyl-2H-isothiazol-3-one mixed with 2-Methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

PRECAUTIONS:

Read label before use

Obtain special instructions before use. DO NOT handle until all safety precautions have been read and understood.

DO NOT eat, drink or smoke while using this product.

Remove protective clothing and wash hands and face thoroughly before meals and after work.

Avoid contact with the skin and eyes

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area

DO NOT apply directly into or onto water

PERSONAL PROTECTION:

When handling, wear full protective clothing such as impervious gloves, respirator, waterproof hat, coat and trousers (worn outside rubber boots).

STORAGE: Store in original container tightly closed and in a locked dry, cool, well-ventilated area, away from foodstuffs.

SPILLS AND DISPOSAL: When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section.

Contain the spill by damming, recover spilt product by absorbing with sawdust or an inert absorbent material then transfer the recovered spilt material to a properly labelled drum. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

Disposal: Dispose of this product only by using according to the label or at an approved landfill. Avoid contamination of any water supply with product or empty container.

Reuse of containers: DO NOT re-use this container for any other purpose.

Container Disposal: Triple rinse container and add residue to mixture. Take to an Agrecovery collection site.

FIRST AID:

If swallowed, DO NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin contact occurs, remove contaminated clothing and flush skin with running water. If splashed in eyes, wash out immediately with water, if irritation persists get medical advice. If inhaled, move the victim to fresh air immediately.



It is an offence to use this product on animals.

DIRECTIONS FOR USE:

MIXING: Half fill the spray tank with water and start agitation. Shake the closed **Emesto® Prime** container, then pour in the required quantity of **Emesto® Prime** with agitators running, then top up with water. DO NOT pre-mix and DO NOT leave the spray mix in the sprayer overnight.

RESISTANCE MANAGEMENT

Group	7	Fungicide
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Emesto Prime Fungicide is a member of the Succinate dehydrogenase inhibitor (SDHI) group of fungicides. Emesto Prime is a Group 7 fungicide. Resistance to this fungicide could develop from repeated use. To minimise this risk, use strictly in accordance with label instructions and resistance management strategies. To delay the development of resistance or to limit the spread of resistant individuals if already present, follow the general or crop-specific use recommendations given by FRAC (www.frac.info) and Bayer, especially:

- Avoid exclusively repetitive and sole use of fungicides from the same FRAC MoA Group 7.
- Mix or alternate with an appropriate partner fungicide from other FRAC MoA Groups at effective rates.
- Limit number of applications according to FRAC guidelines.
- Maintain recommended dose rate and timing of treatments.
- Integrate non-chemical methods (cultural, biological) into pathogen control programs.

Where due to the presence of resistant fungi Emesto Prime fails to control disease development, Bayer does not accept liability. Consult your local supplier, farm consultant, a Bayer representative or the New Zealand Plant Protection Society (Inc), www.resistance.nzpps.org for alternate modes of action and resistance management strategies.



RECOMMENDATION:

Crop	Pest	Rate	Critical comment
Potato	Black scurf / rhizoctonia canker	4 - 5.5 mL/100 m row	<p>Apply Emesto Prime once as an in-furrow spray at planting. Mount the spray nozzle so the spray is directed into the furrow at the seed as a 15-20 cm band applied just before the seed is covered. Alternatively use a 2 nozzle system spraying the furrow prior to seed drop and after it has dropped just prior to covering. Use 4 mL/100 m row in low disease pressure situations. Use a higher rate under moderate to higher disease pressure or when conditions are conducive to disease.</p> <p>Apply Emesto Prime in 1-3 L of water/100 m of row. Ensure the water volumes applied do not wash off any previously applied seed treatments.</p>

RESTRICTIONS: DO NOT apply Emesto Prime if conditions (e.g. high soil temperature and moisture in sandy soils) or seed quality favour seed piece breakdown, as the addition of any moisture to the seed may enhance the problem.

The maximum application rate for Emesto Prime is 670 mL/ha (equating to 161 g penflufen/ha), with a maximum of one application every two years.

Emesto Prime must be applied using ground-based methods only. Must only be applied with the spray directed in-furrow, covered by soil immediately after application and must not be applied if rainfall is forecasted within 72 hours.

Emesto Prime must be applied with minimum, medium droplets, as defined by the American Society of Agricultural and Biological Engineers ASABE Standard (S572) or the British Crop Production Council guideline. It must not be applied when wind speeds are less than 3 km/h or more than 20 km/h as measured at the application site.

Penflufen and metabolite penflufen-hydroxy-butyl have properties and characteristics associated with chemicals detected in groundwater. These chemicals may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow. Users must follow the guidance on Groundwater contamination provided in Appendix J (Environmental Management) of New Zealand Standard: Management of Agrichemicals. NZS8409:2021.



COMPATIBILITY

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

WITHHOLDING PERIOD: Not required when used as directed

CONDITIONS OF SUPPLY: READ THESE CONDITIONS OF SUPPLY BEFORE BUYING AND USING. IF THESE CONDITIONS ARE UNACCEPTABLE, RETURN AT ONCE UNOPENED.

To the extent permitted by law Bayer does not accept any liability or responsibility whatsoever for any loss, damage or injury whether direct, indirect or consequential howsoever arising in connection with these goods, including without limitation their storage, application, handling or use. Bayer does not make any warranties (express or implied) with respect to fitness for purpose, merchantable quality or any other matter.

To the extent only that Bayer is prevented by law from contracting out of the Consumer Guarantees Act, then these conditions apply subject to that Act. The Act shall not apply where these goods are acquired for business purposes.

Date of Manufacture:

Batch No:

Emesto® is a registered trademark of the Bayer Group

Bayer

Registered to:

Bayer New Zealand Limited

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EMERGENCY RESPONSE SERVICE (24 hrs) 0800 734 607

