MAPP 12522
A water dispersible granule containing 25.2% w/w boscalid and 12.8% w/w pyraclostrobin
A fungicide for use in apples and pears.

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

1 kg

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 GLOVES when handling the product.
However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
WHEN USING DO NOT EAT, DRINK OR SMOKE.
AVOID ALL CONTACT BY MOUTH.
WASH HANDS before meals and after work.
IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible).
IF SWALLOWED, seek medical advice immediately and show this container or label.

Environmental protection
Do not contaminate surface waters or ditches with chemical or used container.
DO NOT ALLOW DIRECT SPRAY from broadcast air-assisted spraying equipment to fall within 40 m of the top of the bank of a static or flowing water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 5 m of the top of a ditch which is dry at the time of application. Aim spray away from water.
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Storage and disposal
DO NOT RE-USE CONTAINER for any purpose.
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
KEEP OUT OF REACH OF CHILDREN.
RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.
Store in a suitable pesticide store. Keep dry and protect from frost.

© = Registered trademark of BASF

UN 3077
Environmentally hazardous substance, solid, N.O.S.
(contains boscalid 25% and pyraclostrobin 13%)
Marine pollutant

Supplied by:
BASF plc
Crop Protection
PO Box 4, Earl Road
Cheadle Huime, CHEADLE
Cheshire SK8 6QG
Tel: 0161 485 6222
Emergency Information:
(24 hours freephone):
0049 180 2273112
Technical Enquiries:
0845 602 2553 (office hours)

This label is compliant with the CPA Voluntary Initiative Guidance

81037855GB0128
Bellis®

A water dispersible granule containing 25.2% w/w boscalid and 12.8% w/w pyraclostrobin

HARMFUL IF SWALLOWED
VERY TOXIC TO AQUATIC ORGANISMS,
MAY CAUSE LONG TERM ADVERSE
EFFECTS IN THE AQUATIC ENVIRONMENT

KEEP OUT OF REACH OF CHILDREN
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WHEN USING DO NOT EAT, DRINK OR SMOKE
IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL
THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY
USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION

DANGEROUS FOR THE ENVIRONMENT

To avoid risks to man and the environment, comply with the instructions for use

This product is approved under the Plant Protection Products Regulations 1995.

IMPORTANT INFORMATION

FOR USE ONLY AS A HORTICULTURAL FUNGICIDE, as directed below:

<table>
<thead>
<tr>
<th>Crops</th>
<th>Maximum individual dose</th>
<th>Maximum number of treatments</th>
<th>Latest time of application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apples and pears</td>
<td>0.8 kg/ha</td>
<td>4 per year</td>
<td>7 days before harvest</td>
</tr>
</tbody>
</table>

Other specific restrictions:
A minimum interval of 10 days must be observed between applications to apples and pears.

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.

1. Restrictions/Warnings

1.1 Processed Crops – CONSULT PROCESSORS BEFORE USE. Effects of treatment on fruit for preservation (jam, juice, canned) and fermentation (cider and perry) have not been fully assessed.

2. Disease Control

Bellis is a protectant and systemic fungicide for the control of apple scab (*Venturia inaequalis*) and powdery mildew (*Podosphaera leucotricha*) in apples and scab control in pears (*Venturia pirina*). When used as the final 2 sprays in a fungicide spray programme, Bellis will provide reduction of storage rots caused by *Gloeosporium Alternaria, Botrytis and Penicillium* species in apples and pears.

2.1 Resistance

In order to minimise risk of resistance development, Bellis should be used in a programme with products of different cross-resistant group.

Bellis contains pyraclostrobin (a QoI inhibitor) and boscalid (a carboxamide). A maximum of four applications of Bellis (or other QoI products) per year can be applied where the total number of applications is twelve or more. Where the total number of fungicidal treatments to crops is less than twelve, the maximum number of treatments with Bellis or other QoI products should be three.

Do not use more than two consecutive applications of Bellis.

Blocks of two applications of Bellis must be separated by a minimum of two applications of a fungicide from a different cross-resistant group.
3. Crops
For use in apples and pears

**Time of Application**
For optimum results apply Bellis as a protectant spray from bud burst and repeat at 10–14 day intervals. Use a maximum of four applications per year. A minimum of 7 days must elapse between the last spray and harvest.

**Rate of Application**
Apply Bellis at 0.8 kg of product per hectare in a water volume of 300–1500 litres of water per hectare.

4. Mixing and Spraying
Apply as a MEDIUM spray as defined by BCPC.

Half fill the spray tank with clean water and start agitation. Slowly add in the required amount of product. Rinse empty containers and add rinsings to the spray tank. Add the remainder of the water and continue agitation until spraying is complete.

Water volumes should be based on the size of the trees and leaf area at application, and sufficient to ensure good coverage.

The water volume should not exceed 1500 litres of water per hectare.
The following does not form part of the product label under the Plant Protection Products Regulations 1995.

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 Control of Pesticides Regulations.

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

1. **SUBSTANCE/PREPARATION AND COMPANY NAME**

   **Product Name:** Bellis
   **MAPP Number:** 12522
   **Company:** BASF plc
   **PO Box 4**
   **Earl Road**
   **Cheadle Hulme**
   **Cheadle**
   **Cheshire SK8 6QG**
   **Tel:** 0161 485 6222
   **Fax:** 0161 486 0891
   **Emergency information:** 0049 180 2273112 (24 hours)

2. **COMPOSITION/INFORMATION ON INGREDIENTS**

   **Use:** Horticultural fungicide.
   **Formulation:** A water dispersible granule containing 25.2% w/w boscalid and 12.8% w/w pyraclostrobin

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>CAS No.</th>
<th>w/w</th>
<th>Symbol</th>
<th>R Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boscalid</td>
<td>188425-85-6</td>
<td>25.2</td>
<td>N (Dangerous for the environment)</td>
<td>R51/53</td>
</tr>
<tr>
<td>Pyraclostrobin</td>
<td>175013-18-0</td>
<td>12.8</td>
<td>Xn (Harmful)</td>
<td>R20, R38, R50/53</td>
</tr>
<tr>
<td>Sulfonated aromatic polymer sodium salt, surfactant blend</td>
<td>10.8</td>
<td>Xi (Irritant)</td>
<td>R36/38</td>
<td></td>
</tr>
<tr>
<td>Sodium alkylnaphthalenesulfonate blend</td>
<td>1.3</td>
<td></td>
<td>Xi (Irritant)</td>
<td>R36/38</td>
</tr>
</tbody>
</table>
3. HAZARDS IDENTIFICATION

HAZARDOUS FOR THE ENVIRONMENT

HARMFUL IF SWALLOWED (R22).
VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE
LONG TERM ADVERSE
EFFECTS IN THE AQUATIC ENVIRONMENT (R50/53).

4. FIRST AID MEASURES

General advice:
If a person thinks that they have been exposed to this product and feels unwell, call a doctor or take them to a hospital. Remove all contaminated clothing. Keep them at REST away from source of contamination. DO NOT ALLOW smoking or eating. First aider should avoid becoming contaminated and wear protective clothing if necessary.

Eye contact:
Immediately irrigate affected eyes for at least 15 minutes under flowing water, with eyelids open.

Skin contact:
Immediately remove contaminated clothing and footwear and flush skin with plenty of water. Wash affected area thoroughly with soap and water as soon as possible.

Ingestion:
DO NOT INDUCE VOMITING. Wash out mouth with clean water. Seek medical attention immediately.

Inhalation:
Keep person calm, remove to fresh air.

Unconsciousness:
If danger of loss of consciousness, place person in recovery position. Apply artificial ventilation if necessary, but care must be taken to avoid contamination of the first aider.
GUIDE TO PHYSICIAN - general advice

Active ingredient group:
Boscalid - anilide fungicide in the carboxamide group.
Pyraclostrobin - strobilurin fungicide.

Toxic effects:
The material is of moderate general toxicity.

Symptoms of accidental over exposure:
There is no documentation of pathological effects in humans.

Any unusual symptoms which occur after exposure (by any mode of entry) should be recorded and reported to BASF at Cheadle.

(i) Treatment should be symptomatic and supportive based on judgement of physician.
(ii) If the product has been swallowed, gastric lavage with proper laryngeal control may be necessary. For ingestion of small quantities activated charcoal as an absorbent in a dosage of 30 grams in 100ml of water may be considered.
(iii) Maintenance of ventilation and oxygen therapy to be used as required.
(iv) If symptomatic therapy is indicated for control of restlessness, anxiety or convulsions, then Diazepam is recommended as the drug of choice.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:
Water spray, foam, dry extinguishing media.

Possible harmful fumes in a fire:
Carbon-monoxide, hydrogen chloride, nitrogen oxides and organochloric compounds and sulphur oxides can be released. Avoid breathing smoke or fumes.

Protective equipment:
Self-contained breathing apparatus and protective clothing.
Further information:
Call the Fire Brigade at once to deal with all fires involving pesticides unless the fire is small and immediately controllable. Spray unopened containers with a mist spray to keep cool. If without risk, remove intact containers from exposure to fire. Contain fire-fighting water, bunding if necessary with sand or earth. Do not allow contamination of public drains or surface or ground waters. Dispose of fire debris and contaminated water as advised in the DEFRA publication 'Code of practice for using plant protection products.'

6. ACCIDENTAL RELEASE MEASURES

If spilled:
Wear prescribed protective clothing. Clear spillage immediately. Contain spillage sweep up and collect contaminated material and place in a marked container for disposal. Thoroughly wash area of spillage. Dispose of contaminated materials as advised in the DEFRA publication 'Code of practice for using plant protection products.'

Wash thoroughly immediately after handling spillages, or at once if contaminated.

Personal protective equipment:
See Section 8.

Environmental precautions:
Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland) or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

7. HANDLING AND STORAGE

Handling:
No special measures are necessary. Avoid contact with skin and eyes. When using do not eat, drink or smoke.
Protection against fire and explosion:
Dust can form an explosive mixture with air. Prevent electrostatic discharge. Keep away from sources of ignition.

Storage:
Keep dry and frostproof in a suitable pesticide store. Store separately from food, drink and animal feed.

8. **EXPOSURE CONTROLS AND PERSONAL PROTECTION**

(i) **SAFETY PRECAUTIONS** (from product label)

**Operator protection**
Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:
WEAR SUITABLE PROTECTIVE GLOVES when handling the product.
However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
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AVOID ALL CONTACT BY MOUTH.
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IF SWALLOWED, seek medical advice immediately and show this container or label.

**Environmental protection**
Do not contaminate surface waters or ditches with chemical or used container.
DO NOT ALLOW DIRECT SPRAY from broadcast air-assisted spraying equipment to fall within 40 m of the top of the bank of a static or flowing water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 5 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 Environmental Risk Assessment for Pesticides (LERAP)
scheme for broadcast air-assisted sprayers. Before each spraying operation from a broadcast air-assisted sprayer, either a LERAP must be carried out in accordance with PSD published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years.

**Storage and disposal**

DO NOT RE-USE CONTAINER for any purpose.
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
KEEP OUT OF REACH OF CHILDREN.
RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely. Store in a suitable pesticide store. Keep dry and protect from frost.

(ii) PERSONAL PROTECTIVE EQUIPMENT

In tests with a range of pesticide products, protective gloves made of nitrile rubber at least 0.5 mm thick and 300 mm long have been found to be the most suitable. Gloves made of butyl rubber, neoprene and PVC can also offer good protection. Gloves must protect the whole hand and wrist and repeated use of these gloves depends upon spillages being washed off immediately. The gloves should be thoroughly washed after each operation.

The wearing of other personal protective equipment may be required to supplement the items listed above. These are described in the DEFRA publication, 'Code of practice for using plant protection products.' Contaminate all personal protective equipment after use. When this is not possible dispose of as contaminated wastes.

(iii) OCCUPATIONAL EXPOSURE LIMITS (OESs)

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Long term exposure limit</th>
<th>Short term exposure limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
9. **PHYSICAL AND CHEMICAL PROPERTIES**

- **Form:** Water dispersible granules
- **Colour:** Brown
- **Odour:** Almost odourless
- **Bulk density:** Approx. 600 kg/m$^3$
- **Solubility in water:** Dispersible
- **pH value:** Approx 6.5 (1% (m) as suspension)

10. **STABILITY AND REACTIVITY**

- **Hazardous reactions:** None provided product is correctly handled.
- **Substances to avoid:** Strong acids, bases and oxidising agents.
- **Hazardous decomposition products:** None if stored and handled correctly.

11. **TOXICOLOGICAL INFORMATION**

The product has not been tested, the statements are derived form products of similar composition.

**Acute toxicity:**
- **Ingestion:** Harmful if swallowed (LD$_{50}$ oral (rat): 1490 mg/kg)
- **Skin contact:** Non-irritant (LD$_{50}$ dermal (rat): > 2000 mg/kg)
- **Inhalation:** Unlikely to cause a problem (LC$_{50}$ inhalation (rat) 4h: > 5.4 mg/l)
- **Eye contact:** Non-irritant
- **Sensitising potential:** No sensitising effect

12. **ECOLOGICAL INFORMATION**

Ecotoxic effects: Rainbow trout (*Oncorhynchus mykiss*) LC$_{50}$ 96 h: 0.042 mg/l
- **Algae** EC/LC$_{50}$ (72 h): 0.08 mg/l
- **Daphnia** EC/LC$_{50}$ (48 h): 4.99 mg/l

13. **DISPOSAL CONSIDERATIONS**

Leaking containers: Damaged or leaking containers must be dealt with as soon as noticed by sealing them in impermeable containers.
Disposal of used containers:
Follow the directions given in the DEFRA publication 'Code of practice for using plant protection products.'

Disposal of diluted pesticide:
Advice for the disposal or re-use of diluted pesticide is given in the DEFRA publication 'Code of practice for using plant protection products.'

14. **TRANSPORT INFORMATION**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Number:</td>
<td>3077</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>III</td>
</tr>
</tbody>
</table>

**ROAD/RAIL**

<table>
<thead>
<tr>
<th>ADR/RID Class</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmentally hazardous substance, solid, N.O.S. (contains boscalid 25%, pyraclostrobin 13%).</td>
<td></td>
</tr>
</tbody>
</table>

**SEA**

<table>
<thead>
<tr>
<th>IMDG Class</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmentally hazardous substance, solid, N.O.S. (contains boscalid 25%, pyraclostrobin 13%). Marine Pollutant.</td>
<td></td>
</tr>
</tbody>
</table>

**AIR**

<table>
<thead>
<tr>
<th>ICAO/IATA Class:</th>
<th>9</th>
</tr>
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<td>Environmentally hazardous substance, solid, N.O.S. (contains boscalid 25%, pyraclostrobin 13%). Marine Pollutant.</td>
<td></td>
</tr>
</tbody>
</table>

| Pack sizes: | 1 kg |
| No per outer: | 10 |
15. REGULATORY INFORMATION

This product is approved under the “Plant Protection Products Regulations 1995” and is labelled accordingly.
R-phrases - see Section 3
S-phrases - see Section 8

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

This product is subject to The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2004 and their amendments.

16. OTHER INFORMATION

For further medical advice Doctors should contact the National Poisons Information Service.

In an emergency further information can be obtained from the National Chemical Emergency Centre 01865 407 333 (24 hours).

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.
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