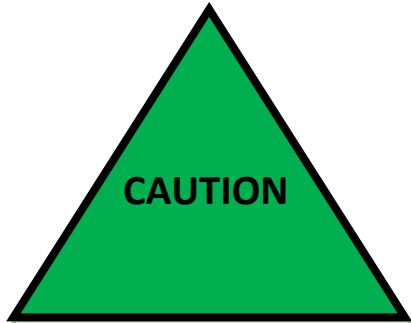


Reg. No.

11-B-88-2-90-1



NET WEIGHT: **1KG**

BATCH NO:
DATE OF MANUFACTURE:
EXPIRY DATE:

HARMFUL IF SWALLOWED

A water dispersible granular fungicide for the preventive control of fungal diseases as listed.

Frac Fungicide group codes 11 AND 7

Active ingredients: Pyraclostrobin (strobilurine).....128g/kg
 Boscalid (Carboxanilide)252g/kg

Registered by

Pivotal Agro-Services (Pvt) Ltd
Agriculture House, Adylinn Road, Marlborough
PO Box WGT 450, Westgate, Harare
Tel: (263-4) 309800 – 18, Fax / Direct Line: (263-4) 309825

Manufactured by

BASF SE, 67056 Ludwigshafen, Germany

™ Trade mark of BASF

TO CAUSE HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE

WARNINGS:**ALLOW THE FOLLOWING NUMBER OF DAYS BETWEEN LAST APPLICATION AND HARVEST:**

CROP	NUMBER OF DAYS
Potatoes	14
Tomatoes	14
Ornamentals	14
Tree Nuts (Macadamias, Almonds, Pistachios, Cashews, Hazelnuts and Pecan nuts.	14
Berries (Blackberry, Blue Berry, Raspberry)	28
Capsicum (Chilles, Paprika, Peppers)	7
Strawberries	7
Onions	7

1. Handle with care.
2. Poisonous if swallowed.
3. May irritate the skin and eyes.
4. Store in a cool, dry place away from food and feedstuffs.
5. Protect against moisture and direct sunlight
6. Very toxic to fish and aquatic invertebrates.
7. KEEP OUT OF REACH OF CHILDREN, UNINFORMED PEOPLE AND ANIMALS.
8. KEEP APART FROM FOOD AND FOODSTUFFS.

Warranty: Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the disease against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS:

1. Do not inhale spray mist or dust.
2. Wear protective clothing.
3. Wash contaminated clothing daily.
4. Wash with soap and water after accidental skin contact.
5. Do not smoke, eat or drink during mixing and spraying operations
6. Wash hands and face thoroughly after mixing and spraying operations
7. Do not contaminate springs, dams, rivers, eating utensils, food or feed.
8. Prevent drift onto other crops and grazing areas.
9. TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.
10. Destroy empty container by perforation and flattening and dispose of it in a safe way and never re-use for any other purpose.

11. Avoid contamination of surface or groundwater (See MSDS)

SYMPTOMS OF POISONING: No significant reaction of the human body to the product known.

FIRST AID TREATMENT:

First Aid providers must wear protective clothing to prevent exposure. Remove contaminated clothing and seek medical advice. Have the product label/container with you when calling the Doctor.

If in eyes:	Wash eyes for at least 15 minutes under running water, with eyelids held open. Consult an eye specialist
If swallowed:	Rinse mouth and then drink plenty of water. Do not induce vomiting, unless told so by a poison control centre or doctor. Seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions
If on skin:	Wash skin with plenty of water. Remove contaminated clothing. If irritation develops, seek medical attention.
If inhaled:	Keep the patient calm, remove the patient to fresh air. Seek medical attention.

Note to Physician: Treat according to symptoms (decontamination, vital functions) no known specific antidote.

RESISTANCE WARNING:

For resistance management, **BELLIS™** is Group Codes 7 & 11 fungicides. Any fungus population may contain individuals naturally resistant to **BELLIS™** and other Group Codes 9 & 11 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly and exclusively in programs. These resistant fungi may not be controlled by **BELLIS™** or any other Group Codes 11 or 7 fungicides.

To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide Group Codes.
- Integrate other control methods (chemical, cultural, biological) into disease control programs.

FOR SPECIFIC INFORMATION ON RESISTANCE MANAGEMENT CONTACT THE REGISTRATION HOLDER.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

Mixing instructions:

Half fill the tank with clean water. Measure the required quantity of **BELLIS™** and pre-mix this with at least 10L water. Add this mixture to the water in the spray tank while agitating the mixture. Fill the spray tank with water while maintaining agitation to ensure thorough mixing of the spray mixture before spraying commences. Maintain agitation during the whole spraying operation. Prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

Compatibility:

BELLIS™ is compatible on potatoes with the following products Acrobat® MZ, Acrobat® WG, Hunter®, Fastac® SC, Abamectin and Methaphos with no known negative effects. (® Registered trademarks of BASF).

Aerial application:

Aerial application of **BELLIS™** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft. Ensure that the spray mixture is distributed evenly over the target area and that

the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- **Volume:** A spray mixture volume of 30 per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aurally at a lower volume rate than recommended above.
- **Droplet coverage:** 25 to 35 droplets per cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 280 to 300 micron is recommended. Limit the production of fine droplets less than 150 micron (high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8 °C.
- Stop spraying if the wind speed exceeds 15km/h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
 - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
 - damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the aerial spray operator knows exactly which fields to spray.
- Obtain an assurance from the aerial spray operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

All spray applications must be made with suitable equipment that is in good working order and correctly calibrated to give the desired coverage for that particular method of application.

APPLICATION RATES:

CROP	DISEASE	DOSAGE	DIRECTION FOR USE
POTATOES	Early blight (<i>Alternaria solani</i>)	300g/ha	<p>Ground application: Apply BELLIS™ as part of a preventive spray programme at 10-14 day intervals. In this programme, alternate with unrelated contact fungicides e.g. Polyram WG Apply a maximum of 3 BELLIS™ applications per season. Apply BELLIS™ in at least 500 l water/ha Ensure good coverage of the plants</p> <p>Aerial application: apply in 30- 40 l water/ha.</p>
TOMATOES	Early blight (<i>Alternaria solani</i>)	300g /ha if water volume exceeds 500L/ha apply at the rate of 60g product/100 L water	Apply BELLIS™ as part of a preventive spray programme at 10-14 day intervals. In the programme, alternate with unrelated contact fungicides e.g. Polyram WG. Apply a maximum of 3 BELLIS™ applications per season in at least 500l water/ha and ensure good coverage of the plants.
ROSES	Downy Mildew (<i>Peronospora sparsa</i>) Black Spot (<i>Diplocarpon rosae</i>)	650-800g/ha in at least 500 L water	Apply as part of a preventative program. Repeat every 7-10 days depending on rain and disease pressure. The shorter interval of 7 days should be used where disease pressure and/or rainfall are high. Apply 3-4 sequential applications of BELLIS™ , after that another fungicide from another class.
	Powdery Mildew (<i>Sphaerotheca pannosa var. rosae</i>)	800g/ha	Apply as part of a preventative program. Repeat every 7-10 days depending on rain and disease pressure. The shorter interval of 7 should be used where disease pressure and/or rainfall are high.
TREE NUTS ▪ Macadamias ▪ Almonds ▪ Pistachios ▪ Cashews ▪ Hazelnuts ▪ Pecan nuts	Blossom blight (<i>Cladosporium cladosporioides</i>) Anthracnose / Husk rot (<i>Colletotrichum spp.</i>) Husk spot (<i>Pseudocercospora macadamiae</i>)	800g/ha	Apply Bellis® prior to disease development, as part of a programme, commencing at flower tassel emergence, followed with a second application two weeks later. Apply Bellis® in 1200 - 1500 l water / ha. Resistance management: To limit the potential for development of resistance, do not make more than three Bellis® or other Group 7 or 11 fungicides applications, per season. Do not make more than two sequential applications of Bellis® before alternating to a registered fungicide with a different mode of action.
BERRIES ▪ Blackberries ▪ Blueberries ▪ Raspberries	Leaf Rust (<i>Thekopsora minima</i>)	60g/100 L Water	The first application should be done at the start of the post-harvest flush, before first autumn rain, with a maximum of three applications (FRAC guidelines) per season, as needed to cover the new growth into winter.
CAPSCUM ▪ Chillies ▪ Paprika ▪ Peppers	Powdery mildew (<i>Leveillula taurica</i>) Cercospora leaf spot (<i>Cercospora capsici</i>) Anthracnose (<i>Colletotrichum spp.</i>)	500g/ha	Apply Bellis® as a preventive treatment, at 10 - 14 day intervals. Bellis® should be applied as part of a programme application, with a maximum of three applications per season. All other applications for disease control, must be made with different Fungicide Group Codes. Apply Bellis® in 300 - 500 l water / ha. Ensure good coverage of the plants.

STRAWBERRIES	<p>Anthracnose (<i>Colletotricum spp.</i>)</p> <p>Botrytis gray mold (<i>Botrytis cinerea</i>)</p> <p>Powdery mildew (<i>Sphaerotheca macularis</i>)</p>	1.2kg/ha	<p>Apply Bellis® as part of a preventive spray programme. Apply at high volume, with a 7–14 day spray interval, with applications commencing no later than 10 % bloom, or prior to disease development. Use the shorter interval, when conditions favour disease development.</p> <p>Resistance management: To limit the potential for development of resistance, do not make more than three Bellis® or other Group 7 or 11 fungicides applications, per season. Do not make more than two sequential applications of Bellis® before alternating to a registered fungicide with a different mode of action.</p>
ONIONS	Purple blotch (<i>Alternaria porri</i>)	300g/ha	<p>Apply Bellis® as a preventive treatment, at 10 - 14 day intervals. Bellis® should be applied as part of a programme application, with a maximum of three applications per season. All other applications for the control of Purple blotch, must be made with different Fungicide Group Codes. Apply Bellis® in 300 - 500 l water / ha. Ensure good coverage of the plants. Always add a wetter / sticker to the spray solution.</p>

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 01.10.2014

Product: **BELLIS**

Version: 4.3

(ID no. 30246505/SDS_CPA_EU/EN)

Date of print 09.08.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

BELLIS

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: crop protection product, fungicide

1.3. Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Crop Protection

Telephone: +49 621 60-27777

E-mail address: Produktinformation-Pflanzenschutz@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (oral)

Eye Dam./Irrit. 2

Aquatic Acute 1

Aquatic Chronic 1

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

Harmful if swallowed.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Warning

Hazard Statement:

H319	Causes serious eye irritation.
H302	Harmful if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary Statement:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

Precautionary Statements (Prevention):

P270	Do not eat, drink or smoke when using this product.
P280	Wear eye protection.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330	Rinse mouth.
P391	Collect spillage.

Precautionary Statements (Disposal):

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P501 Dispose of contents/container to hazardous or special waste collection point.

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: boscalid, pyraclostrobin

According to Directive 67/548/EEC or 1999/45/EC

EEC Directives

Hazard symbol(s)

Xn Harmful.



N Dangerous for the environment.



R-phrases(s)

R22 Harmful if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S2 Keep out of the reach of children.

S13 Keep away from food, drink and animal feeding stuffs.

S20/21 When using do not eat, drink or smoke.

S46 If swallowed, seek medical advice immediately and show this container or label.

S29/35 Do not empty into drains, this material and its container must be disposed of in a safe way.

S57 Use appropriate container to avoid environmental contamination.

Hazard determining component(s) for labelling: boscalid, pyraclostrobin

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 01.10.2014

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Product: **BELLIS**

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Not applicable

3.2. MixturesChemical nature

crop protection product, fungicide, water dispersible granules

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

boscalid

Content (W/W): 25.2 %
CAS Number: 188425-85-6Aquatic Chronic 2
H411

pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate

Content (W/W): 12.8 %
CAS Number: 175013-18-0
INDEX-Number: 613-272-00-6Acute Tox. 3 (Inhalation - mist)
Skin Corr./Irrit. 2
STOT SE 3 (irr. to respiratory syst.)
Aquatic Acute 1
Aquatic Chronic 1
M-factor acute: 100
M-factor chronic: 100
H315, H331, H335, H400, H410

Sodium alkylnaphthalenesulfonate, polymer with formaldehyde

Content (W/W): < 15 %

Skin Corr./Irrit. 2
Eye Dam./Irrit. 2
H319, H315

Ammonium sulphate

Content (W/W): < 15 %
CAS Number: 7783-20-2
EC-Number: 231-984-1
REACH registration number: 01-2119455044-46

Silica gel, precipitated, crystalline free

Content (W/W): < 15 %
CAS Number: 112926-00-8
REACH registration number: 01-2119379499-16

Kaolin

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

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Version: 4.3

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Date of print 09.08.2016

Content (W/W): < 5 %
CAS Number: 1332-58-7
EC-Number: 310-194-1

Sodium sulphate

Content (W/W): < 5 %
CAS Number: 7757-82-6
EC-Number: 231-820-9
REACH registration number: 01-2119519226-43

Hazardous ingredients

according to Directive 1999/45/EC

boscalid

Content (W/W): 25.2 %
CAS Number: 188425-85-6
Hazard symbol(s): N
R-phrases: 51/53

pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate

Content (W/W): 12.8 %
CAS Number: 175013-18-0
INDEX-Number: 613-272-00-6
Hazard symbol(s): T, N
R-phrases: 23, 37/38, 50/53

Sodium alkyl naphthalenesulfonate, polymer with formaldehyde

Content (W/W): < 15 %
Hazard symbol(s): Xi
R-phrases: 36/38

Ammonium sulphate

Content (W/W): < 15 %
CAS Number: 7783-20-2
EC-Number: 231-984-1
REACH registration number: 01-2119455044-46

Silica gel, precipitated, crystalline free

Content (W/W): < 15 %
CAS Number: 112926-00-8
REACH registration number: 01-2119379499-16

Kaolin

Content (W/W): < 5 %
CAS Number: 1332-58-7
EC-Number: 310-194-1

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 01.10.2014

Version: 4.3

Product: **BELLIS**

(ID no. 30246505/SDS CPA EU/EN)

Date of print 09.08.2016

Sodium sulphate

Content (W/W): < 5 %

CAS Number: 7757-82-6

EC-Number: 231-820-9

REACH registration number: 01-2119519226-43

For the classifications not written out in full in this section, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:

carbon dioxide

5.2. Special hazards arising from the substance or mixture

carbon monoxide, hydrogen chloride, Carbon dioxide, nitrogen oxides, organochloric compounds, sulfur oxides

The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

6.2. Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

Avoid raising dust. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.2. Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

1332-58-7: Kaolin

7757-82-6: Sodium sulphate

7783-20-2: Ammonium sulphate

112926-00-8: Silica gel, precipitated, crystalline free

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact

(Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

SECTION 9: Physical and Chemical Properties**9.1. Information on basic physical and chemical properties**

Form:	granules, extrudates	
Colour:	brown	
Odour:	moderate odour, smoky	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
pH value:	approx. 6 - 8 (1 %(m), 20 °C) (as suspension)	
melting range:	approx. 50 °C	
Boiling point:	not applicable, The substance / product decomposes therefore not determined.	
Flash point:	not applicable	
Evaporation rate:	not applicable	
Flammability:	not highly flammable	(Directive 84/449/EEC, A.10)
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.	
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.	
Vapour pressure:	negligible	
Density:	approx. 1.51 g/cm ³ (20 °C) approx. 12.6016 Lb/USg (68 °F)	(OECD Guideline 109)
Relative vapour density (air):	not applicable	
Solubility in water:	dispersible	
Partitioning coefficient n-octanol/water (log Kow):	not applicable	
Self ignition:	Temperature: 328 °C	(Method: Directive 92/69/EEC, A.16)
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 01.10.2014

Version: 4.3

Product: **BELLIS**

(ID no. 30246505/SDS CPA EU/EN)

Date of print 09.08.2016

Viscosity, dynamic:

not applicable, the product is a solid

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating (Directive 92/69/EEC, A.17)

9.2. Other information

Bulk density: approx. 600 kg/m³

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to avoid

See MSDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Of moderate toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): approx. 1,490 mg/kg

LC50 rat (by inhalation): > 5.4 mg/l 4 h

LD50 rat (dermal): > 2,000 mg/kg

Irritation

Assessment of irritating effects:

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. May cause slight irritation to the eyes. Not irritating to the skin.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: Slightly irritating. (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

modified Buehler test guinea pig: Non-sensitizing.

Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 3-Pyridinecarboxamide, 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-

Assessment of repeated dose toxicity:

Adaptive effects were observed after repeated exposure in animal studies.

Other relevant toxicity information

Misuse can be harmful to health.

SECTION 12: Ecological Information**12.1. Toxicity**

Assessment of aquatic toxicity:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Toxicity to fish:

LC50 (96 h) 0.042 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203)

Aquatic invertebrates:

EC50 (48 h) 0.08 mg/l, *Daphnia magna* (OECD Guideline 202, part 1)

Aquatic plants:

EC50 (72 h) 4.99 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201)

12.2. Persistence and degradabilityAssessment biodegradation and elimination (H₂O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: boscalid

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

Information on: pyraclostrobin

Assessment biodegradation and elimination (H₂O):

Poorly biodegradable.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 3-Pyridinecarboxamide, 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-

Bioaccumulation potential:

Bioconcentration factor: 57 - 70 (28 d), Oncorhynchus mykiss

Does not accumulate in organisms.

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate

Bioaccumulation potential:

Bioconcentration factor: 379 - 507, Oncorhynchus mykiss (OECD-Guideline 305)

Accumulation in organisms is not to be expected.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 3-Pyridinecarboxamide, 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-

Assessment transport between environmental compartments:

Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate

Assessment transport between environmental compartments:

Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7. Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14: Transport Information

Land transport

ADR

UN number: UN3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains BOSCALID, PYRACLOSTROBIN)
Transport hazard class(es): 9, EHSM
Packing group: III
Environmental hazards: yes
Special precautions for user: Tunnel code: E

RID

UN number: UN3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains BOSCALID, PYRACLOSTROBIN)
Transport hazard class(es): 9, EHSM
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

Inland waterway transport

ADN

UN number: UN3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains BOSCALID, PYRACLOSTROBIN)
Transport hazard class(es): 9, EHSM
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

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Transport in inland waterway vessel:	Not evaluated
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Sea transport

IMDG

UN number:	UN 3077
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains BOSCALID, PYRACLOSTROBIN)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	yes
	Marine pollutant: YES
Special precautions for user:	None known

Air transport

IATA/ICAO

UN number:	UN 3077
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains BOSCALID, PYRACLOSTROBIN)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	yes
Special precautions for user:	None known

14.1. UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

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See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

SECTION 16: Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of the classifications, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, if mentioned in section 2 or 3:

N	Dangerous for the environment.
T	Toxic.
Xi	Irritant.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
23	Toxic by inhalation.
37/38	Irritating to respiratory system and skin.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
36/38	Irritating to eyes and skin.
Acute Tox.	Acute toxicity
Eye Dam./Irrit.	Serious eye damage/eye irritation
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic

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Version: 4.3

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Skin Corr./Irrit.	Skin corrosion/irritation
STOT SE	Specific target organ toxicity — single exposure
H411	Toxic to aquatic life with long lasting effects.
H315	Causes skin irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H319	Causes serious eye irritation.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.