

SEED TREATMENT

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY OR UNDERTAKING

IDENTIFICATION OF THE SUBSTANCE OR PREPARATION

Tradename **BERET GOLD**
 Design Code **A8207M**
 AGI Code **178080**
 Sales Code **30693/30622/30698/33567**

COMPANY/UNDERTAKING IDENTIFICATION

Company Syngenta Crop Protection UK Ltd
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Emergency Phone **+44 (0)1484 538444 (24h)**

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

CAS-NO.	EC-NO.	CHEMICAL NAME	CONCENTRATION (%W/W)	HAZARD SYMBOLS	RISK PHRASES (R)
131341-86-1	–	fludioxonil	2.4	N	50/53
9004-98-2	–	poly(oxy-1,2-ethanediyl), alpha-9-octadecenyl-omegahydroxy-,(2)	5–10	Xn	22, 41
57-55-6	200-338-0	1,2-propanediol	5–10	–	–

For the full text of the R phrases mentioned in this section, see section 16.

3. HAZARDS IDENTIFICATION

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

4. FIRST AID MEASURES

General advice: Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a Poison Control Centre or physician, or going for treatment.

Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.

Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

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Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.

Medical advice: There is no specific antidote available. Treat symptomatically.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

Extinguishing media – small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media – large fires: Use alcohol-resistant foam or water spray.

Extinguishing media which must not be used for safety reasons: Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during fire fighting: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

Special protective equipment for fire fighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to protective measures listed in sections 7 and 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13).

Additional advice: If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

HANDLING

Advice on safe handling: No special technical protective measures required. No special handling advice required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

STORAGE

Requirements for storage areas and containers: No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**COMPONENTS WITH WORKPLACE CONTROL PARAMETERS**

Components	Exposure limit(s)	Value type	Source
fludioxonil	10 mg/m ³	8 h TWA	SYNGENTA
propane-1,2-diol	10 mg/m ³ (Particulates)	8 h TWA	UK HSE
	150 ppm 474 mg/m ³ (Total vapour & particulates)		

ENGINEERING MEASURES

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

PERSONAL PROTECTIVE EQUIPMENT

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment:

Protective measures: The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Respiratory protection: No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.

Hand protection: Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.

Eye protection: Eye protection is not usually required. Follow any site specific eye protection policies. Eye/face protection should be certified to EN 166.

Skin and body protection: No special protective equipment required. Select skin and body protection based on the physical job requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Suspension
Colour:	Red to dark red
pH:	6.0–9.0 at (20–25°C)
Flash-Point:	>90°C
Density:	1.05 g/cm ³ at 20°C
Dynamic Viscosity:	400–700 mPa.s at 20°C

10. STABILITY AND REACTIVITY

Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours.

Hazardous reactions: None known. Hazardous polymerisation does not occur. Stable under normal conditions.

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11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity, LD50 Female rat: >5,000 mg/kg

Acute Dermal Toxicity, LD50 Male and Female rat: >5,050 mg/kg

Skin Irritation, Rabbit: Non irritant.

Eye Irritation, Rabbit: Non irritant.

Sensitisation, Buehler Test, Guinea Pig: Did not cause sensitisation on laboratory animals.

LONG-TERM TOXICITY: Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

12. ECOLOGICAL INFORMATION**ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)**

Bioaccumulation: Fludioxonil does not bioaccumulate.

Stability in water: Fludioxonil is stable in water.

Stability in soil: Fludioxonil is moderately persistent in soil.

Mobility: Fludioxonil has low to very high mobility in soil.

ECOTOXICITY EFFECTS

Toxicity to Fish LC₅₀: 5.5 mg/l (*Oncorhynchus mykiss* (Rainbow trout); 96 h)

Toxicity to Algae ErC₅₀: 14 mg/l (*Selenastrum capricornutum* (green algae), 72 h)

Toxicity to Algae EbC₅₀: 6 mg/l (*Pseudokirchneriella subcapitata* (green algae), 72 h)

Toxicity to Aquatic Invertebrates EC₅₀: 37 mg/l (*Daphnia magna* (water flea); 48 h)

13. DISPOSAL CONSIDERATIONS

Product: Where possible recycling is preferred to disposal or incineration. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION**RAIL/ROAD/SEA/AIR
(RID/ADR/IMDG/IATA)**

Class	UN Number	Packaging Group
9	3082	III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (FLUDIOXONIL)

Marine pollutant: Yes

15. REGULATORY INFORMATION**Classifications/**

Hazard symbols **N** **DANGEROUS FOR THE ENVIRONMENT**

Risk phrases (R) 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases (S) 2 Keep out of the reach of children.

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- 13 Keep away from food, drink and animal feeding stuffs.
20/21 When using do not eat, drink or smoke.
35 This material and its container must be disposed of in a safe way.
57 Use appropriate containment to avoid environmental contamination.

Special label

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

16. OTHER INFORMATION

Always read the label. Use pesticides safely.

Product approval number: MAPP 12625

Based on SDS dated 12/12/2005, version 2 with DPD assessment. Issue date 13/01/2006.

Update with addition of R phrases from section 3 in to section 16, title change, and update of Sales Codes to Section 1.

Text of R phrases mentioned in Section 2:

R22: Harmful if swallowed.

R41: Risk of serious damage to eyes.

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

The information contained herein is based on the present state of our knowledge as is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.