

Safety Data Sheet

Revision date: 19-May-2004
replaces all previous editions

BONZI

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

Identification of the Substance or Preparation

Tradename BONZI
Design Code YF7419A / A10784A
AGI Code 1000187

Company Identification

Company Syngenta Crop Protection UK Ltd
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characteristic

Formulation type An aqueous suspension.
Use A plant growth regulator
EEC-No. 266-325-7 Paclobutrazol

CAS-No.	Hazardous ingredients	Concentration	Hazard symbols	Risk phrases (R)
76738-62-0	Paclobutrazol	4 g/l	Xn, N	20/22, 36, 51/53
57-55-6	Propane-1,2-diol	150 g/l	-	-

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

3. HAZARDS IDENTIFICATION

Low toxicity under normal conditions of handling and use.

4. FIRST AID MEASURES

- Eye contact:** Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.
- Skin contact:** Take off immediately all contaminated clothing. Wash skin immediately with water, followed by soap and water. Such action is essential to minimise contact with skin. Contaminated clothing should be laundered before re-issue.
- Inhalation:** Remove patient from exposure, keep warm and at rest. Obtain medical attention as a precaution.
- Ingestion:** If swallowed seek medical advice immediately and show the container, label or this Data Sheet, if possible. Do not induce vomiting.

Medical advice

Symptomatic treatment and supportive therapy as indicated.

5. FIRE FIGHTING MEASURES

Keep fire exposed containers cool by spraying with water.

Extinguishing media: For small fires, use foam, carbon dioxide or dry powder extinguishant. For large fires, use foam or water-fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.

Protective Equipment: A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure suitable personal protection during removal of spillages. This means wearing eye protection, 0.6 mm nitrile gloves, boots and coveralls.

Clean up methods: Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains.

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

7. HANDLING AND STORAGE

Handling

Read the label before use.

Safe handling advice: Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

Storage

Safe storage advice: Keep in original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Protect from frost.

Storage Life: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection

When using this product refer to the label for details.

Respiratory protection: Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. Respiratory protective equipment should conform to the appropriate EN standard.

Eye protection: Wear suitable eye/face protection conforming to EN 166.

Hand protection: Wear suitable gloves conforming to EN 374. Suitable materials: nitrile rubber.

Body protection: Wear suitable protective clothing.

Occupational exposure limits, Hazardous ingredients

HSE; EH40/2002 OEL

Propane-1,2-diol (Propylene glycol):

Total (vapour & particulates), LTEL, 8 hr TWA, 150 ppm 474 mg/m³.

Particulates, STEL, 15 min, 10 mg/m³.

SYNGENTA Internal Standard

Paclobutrazol:

8 hr TWA, 5 mg/m³.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid.
Colour:	Milky white/green.
Boiling point:	Approx 100 °C, aqueous solution.
Flash point:	Does not flash.
Density at 20 °C:	1.02 g/ml
Solubility in/with water:	Miscible.
Oxidizing properties:	Non-oxidising.

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity (Lethal Doses)

LD50 Oral rat: > 5346 mg/kg, Low oral toxicity.

LD50 Dermal rat: > 2000 mg/kg

Inhalation: Unlikely to cause harmful effects under normal conditions of handling and use.

Acute Toxicity (Irritation, Sensitisation, etc.)

Eye Irritation: Non-irritant to rabbit eyes.

Skin Irritation: Non-irritant to rabbit skin.

Skin Sensitisation: It is not a skin sensitiser in animal tests.

Chronic Toxicological Effects / Long Term Exposure

Long Term Exposure: No long-term risks to man are associated with the normal handling and use of this material.

12. ECOLOGICAL INFORMATION

Environmental Fate, Distribution, Bioaccumulative Potential, Persistence and Degradation

Information applies to Paclobutrazol.

The substance has moderate mobility in soil.

The substance has potential for bioaccumulation. However there is rapid elimination from fish

There is no evidence of hydrolysis or photodegradation in water.

There is no evidence of photodegradation on soil surfaces.

Ecotoxicity

Unlikely to be hazardous to aquatic life.

13. DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or ditches with chemical or used containers.

Dispose of product concentrate, diluted product and empty containers according to the 'Code of Practice for the Safe Use of Pesticides on Farms and Holdings' available from HMSO. Empty containers should not be used for other purposes. Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

15. REGULATORY INFORMATION

Hazard symbol / Classification:	-	None
Risk phrases (R):	-	None
Safety phrases (S):	2 13 20/21	Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke.
Special label:		To avoid risks to man and the environment, comply with the instructions for use.

This preparation is covered by the EEC Dangerous Preparations Directive. It has therefore been labelled in accordance with these regulations. Users should ensure that they comply with any relevant local, state or national legislation.

16. OTHER INFORMATION

Always read the label. Use pesticides safely.

Based upon SDS release date 28/04/04. DPD compliant. Significant revision to sections 8 (Personal protection), 9 (colour and oxidizing properties), 11 (LD50 Dermal rat), 12 (entire section), 15 (EEC statement)

Approval number: MAPP 10517.

Text of R phrases mentioned in Section 2:

R20/22 Harmful by inhalation and if swallowed.

R36 Irritating to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information on this sheet is not a specification, it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.