

Fezan

(MAPP 13681)

A fungicide for control
of a range of diseases in
winter and spring wheat
(excluding Durum) barley,
rye and oats



SIPCAM U.K.

Fezan

(MAPP 13681)

An oil-in-water emulsion containing 250g/l tebuconazole.

A fungicide for control of a range of diseases in winter and spring wheat (excluding Durum) barley, rye and oats.



HARMFUL

Risk of serious damage to eyes.
Possible risk to the unborn child.



DANGEROUS FOR THE ENVIRONMENT

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

Safety Data Sheet available for the professional user on request.
To avoid risks to man and the environment, comply with the instructions for use.

COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED* IS A LEGAL REQUIREMENT FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL FUNGICIDE

Crops Winter and spring-sown Wheat (except Durum wheat), winter and spring-sown Barley, Rye and Oats.

Maximum individual dose: 1 Litre product/hectare

Maximum total dose: 2 Litres per crop

Latest time of application: before the 'grain milky ripe' stage (before GS 73).

READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE BEFORE USE

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

READ THE LABEL BEFORE YOU BUY – USE PESTICIDES SAFELY

SIPCAM UK CONDITIONS OF SUPPLY

All goods supplied by us are of high grade, but as we cannot exercise control over their mixing or use, all conditions and warranties, statutory or otherwise, as to the quality or fitness of our goods for any purpose, are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use.

Fezan - 2/08

Fezan is a registered trademark and product of Oxon Italia SPA.

Sipcam UK Limited, 3 The Barn, 27 Kneesworth Street, Royston, Herts SG8 5AB. Tel: 01763 212100. Fax: 01763 212101.

DIRECTIONS FOR USE

Important: The information in this leaflet 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.

FUNGICIDE RESISTANCE

FEZAN is a DMI fungicide. Repeated application of FEZAN alone on the same crop should be avoided. Tank mixture or alternation with fungicides with a different mode of action (e.g. morpholines) have been shown to protect against development of resistant forms of disease.

Resistance to some DMI fungicides has been identified in Septoria leaf blotch (*Mycosphaerella graminicola*) which may seriously affect the performance of some products. For further advice on resistance management in DMIs contact your agronomist or specialist advisor, and visit the FRAG-UK website.

RECOMMENDATIONS FOR USE IN CEREAL CROPS

As a general rule, disease control and yield benefit will be optimal when treatment is made at an early stage of disease development.

Rate of Application

1.0 litre/ha.

Volume of Water

Use at least 200 litres of water/ha. Increase the water volume to 300 litres/ha in very dense crops or susceptible varieties. Apply as a MEDIUM quality spray (as defined by BCPC).

Crops

FEZAN can be applied to all varieties of winter and spring barley, winter and spring wheat (except Durum wheat) and rye, but only on the following varieties of oats:

Winter oats – Aintree, Chamois, Craig, Emperor, Gerald, Kynon, Mirabel, Pennal, Solva.

Spring oats – Aberglenn, Cabana, Commander, Dula, Melys, Rhiannon, Ripon.

Diseases Controlled and Application Timing

FEZAN can be applied to cereal crops at any stage before the Grain Milky Ripe stage (before GS 73). Do not apply more than 2.0 litres/ha of FEZAN per crop.

1. Control of Powdery Mildew (wheat, barley, oats and rye).

Apply FEZAN at the first signs of disease. When disease pressure remains high application may be repeated if necessary, but see considerations under 'FUNGICIDE RESISTANCE'. On wheat, barley and rye improved control of established infections, or on particularly susceptible varieties, may be achieved by adding 0.5 l/ha Corbel (M00578) in tank mixture.

2. Control of *Septoria* Leafspot and *Septoria* Glume Blotch (wheat).

To protect the flag leaf and ear, apply FEZAN from the 'flag leaf emerging' stage (GS 37) up to the 'ear fully emerged' stage (GS 59).

Earlier application may be necessary if there is a high risk of *Septoria* leaf spot. Apply when disease is active but before it appears on the upper leaves. Applications made when foliar symptoms are already present on the upper leaves will be less effective.

3. Control of Yellow Rust and Brown Rust (wheat, barley and rye).

Apply as soon as the disease is seen. Applications made to established infestations will be less effective. Repeat after 2-3 weeks if re-infection occurs.

4. Control of *Fusarium* Ear Blights and Sooty moulds (wheat).

An application of FEZAN shortly after ear emergence can give a good reduction of *Fusarium* ear blight and a reduction of sooty moulds (*Alternaria* and *Cladosporium*).'

5. Control of *Rhynchosporium* Leaf Blotch (barley and rye).

Apply FEZAN at the onset of disease. A second application may be necessary 2-3 weeks later, but see considerations under 'FUNGICIDE RESISTANCE.

6. Control of Net Blotch (barley).

Apply at the first sign of disease in the spring or early summer. If conditions remain favourable for disease development, a second application should be made 2-3 weeks later. If the disease develops after flag leaf emergence, a single application should provide good protection.

7. Control of Crown Rust (oats).

Apply FEZAN on first appearance of the disease. Applications made to control mildew on oats will reduce Crown Rust infections occurring at the same time.

Occasionally, after application of FEZAN, some transient leaf speckling on wheat, or leaf reddening/scorch on oats, may occur, but these symptoms have not been shown to adversely affect yield responses accruing from the benefits of disease control.

SAFETY INFORMATION

Compliance with all Safety Precautions marked * is a legal requirement.

a. 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 AND FACE PROTECTION (FACESHIELD) when handling the concentrate.
- * WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.
- * WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying the product.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they afford an equal or higher standard of protection.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH SPLASHES from skin and eyes immediately.

WASH HANDS AND EXPOSED SKIN before eating or drinking and after work.

IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

b. Environmental Protection

- * DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

Use appropriate containment to avoid environmental contamination.

c. Storage and Disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER tightly closed, in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or by manually rinsing three times. Add the washings to the sprayer at the time of filling and dispose of safely.

- * DO NOT RE-USE CONTAINER for any purpose.

This material and its container must be disposed of in a safe way.

SHAKE THE CONTAINER WELL BEFORE OPENING AND USE.

PROTECT FROM FROST.

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

Product name – Fezan

MAPP – 13681

Use – Fungicide

Formulation type – Oil in water emulsion

Supplier – Sipcam UK Limited, 3 The Barn, 27 Kneesworth Street, Royston, Herts SG8 5AB

Emergency phone no – Office 01763 212100

2. HAZARDS IDENTIFICATION

Designation – Xn, HARMFUL + N Dangerous for the Environment.

R Phrases – R41 Risk of Serious Damage to Eyes.

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

R63 Possible risk of harm to the unborn child.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Common name	R phrases	%
53651-69-7	Propil lattato	Xi, R41	41.5
	Tebuconazole	Xn, N, R22 – 51/53 -63	24.2
	Ethylexyl lactate	Xi, R36/38	20.0
	Anionic and non-anionic surfactants	Xi, R36	12.0

4. FIRST AID MEASURES

General advice – Remove from source of exposure. Remove all contaminated clothing and wash affected area.

Inhalation – Remove the individual from exposure to this product and keep well ventilated with fresh air. Keep at rest. If necessary and if breathing stops, give artificial respiration. Seek medical attention.

Skin contact – Remove contaminated clothing immediately. Wash affected area thoroughly with soap and water. Rinse with more water. Seek medical attention.

Eye contact – Rinse immediately with plenty of water for at least 15 minutes and then seek medical attention.

Ingestion – Immediately offer water to drink. Do NOT induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Treatment – Treat Symptomatically. Maintain under medical supervision for at least 48 hours. This product is not an inhibitor of cholinesterase.

Consult a Poisons Centre such as:
0171 635 9191 (National Poisons Information Service - London)
(AUTHORISED MEDICAL PRACTITIONERS ONLY)

5. FIRE FIGHTING MEASURES

Suitable extinguishing media – Fight fire with CO₂, dry chemical powder, foam or water spray (in preference to water jet).

Specific hazards – Combustion may generate toxic fumes containing HCL, CO and NO_x. Under certain fire conditions traces of other toxic gases cannot be excluded.

Protective equipment – Wear self-contained breathing apparatus (SCBA).

Specific Methods – Remove undamaged containers from source of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal Protective Equipment – Wear protective coveralls, neoprene gloves, rubber boots and faceshield or goggles, covering as much of the body as possible (see section 8).

Environmental Protection – Inform local water plc immediately if spillage enters drains and the National Rivers Authority (England and Wales) or River Purification Boards (Scotland), if it enters surface or ground waters.

Clean up Methods – Contain spillage. Absorb in earth or sand sweep up carefully and shovel sweepings into marked bags or drums. Dispose of through a reputable local waste disposal contractor.

7. HANDLING AND STORAGE

Handling

Use Personal Protective Clothing as specified in Section 8.

Storage

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

Other

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

WASH SPLASHES from skin or eyes immediately.

AVOID ALL CONTACT BY MOUTH, WITH SKIN AND EYES.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Personal Protective Equipment

WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

9. PHYSICAL AND CHEMICAL PROPERTIES

State – Liquid

Density – 1.03 g/ml

Colour – Yellow

Odour – Characteristic

pH (1% in water) – 5-6

Solubility – emulsifiable

10. REACTIVITY AND STABILITY

Stable under normal use conditions, not explosive nor self igniting.

Thermal decomposition products may include toxic and corrosive fumes of chlorides and toxic oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50 1700 mg/kg (rat)

LD/LC50 values that are relevant for classification

Dermal LD50 >5000 mg/kg (rat)

Active substance

Inhalation LC50/4 h 0.37 mg/l (rat)

ADI (acceptable daily intake)

0.03 mg/kg/bw (man)

NOEL (no observable effect level)

NOEL 300 (2Y) mg/kg (rat)

Irritant effects

Skin Not irritating

Eye Strong irritant with the danger of severe eye injury

Sensitization

No sensitizing effect known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Active substance – Rainbow Trout LC50 4.4 mg/l (96hr)

Daphnia magna EC50 4.2 mg/l (48hr)

Algae EC50 4.0 mg/l (96hr)

Bees LD50 175ug/bee

Mallard LD50 4,816 mg/kg diet

13. DISPOSAL

Contact Local Authority (Environmental Health Department) or a reputable waste disposal company for collection and disposal of unwanted product or containers.

For further guidance on the disposal of containers, surplus spray solution, tank washings and concentrate, refer to Part 5 (Disposal of Pesticide Waste) of the MAFF/HSE booklet "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

14. TRANSPORT

UN Number – UN3082

Packaging Group – III

Marine Pollutant – Yes

ADR/RID Classification – Class 9

IMDG/IMO Classification – Class 9

Proper shipping name – 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tebuconazole)

15. REGULATORY INFORMATION

Xn, HARMFUL

N Dangerous for the Environment

Risk Phrases (R)

R41 Risk of Serious Damage to Eyes.

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

R63 Possible risk of harm to the unborn child.

Safety Phrases (S)

S36/37/38 Wear suitable protective clothing/gloves/ eye/face protection.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S35 This material and its container should be disposed of in a safe way.

S57 Use appropriate containment to avoid environmental contamination.

16. OTHER INFORMATION

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

Packaging – Container: 5 Litre HDPE with 63mm neck. 4x5 in double-wall carton box.

Approval number – M13681.