

PRODUCT SAFETY DATA SHEET

RIZA

1. † Identification of the Preparation and the Company:

Trade name: RIZA

A fungicide for use in agriculture and horticulture

Company Identification:

Headland Agrochemicals Ltd.

Rectors Lane

Pentre

Deeside

Flintshire CH5 2DH

Tel: +44(0) 1244 537370

Fax: +44(0) 1244 532097

E-Mail: enquiry@headlandgroup.com

2. Hazards:

Harmful – possible risk of harm to the unborn child. Irritating to eyes and skin.

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

3. Composition:

An oil-in-water emulsion containing 250 gms/litre of tebuconazole

Hazardous components:

Tebuconazole (ISO) 25% w/w

CAS No. 107534-96-3

Hazard symbol Dangerous for the Environment N

Risk phrases R51 Toxic to aquatic organisms

R53 May cause long-term adverse effects in the aquatic environment

R63 Possible risk of harm to the unborn child.

N-methyl-2-pyrrolidone 15% w/w

CAS No 872-50-4

Hazard Symbol Irritant Xi

Risk phrases R36/38 Irritating to eyes and skin

N-octanol 17% w/w

CAS No. 111-87-5

Hazard Symbol Dangerous for the Environment N

Risk phrases R51 Toxic to aquatic organisms

R53 May cause long-term adverse effects in the aquatic environment

Tristyrylphenol-polyethylene glycol phosphoric acid 5% w/w
CAS No. 114535-82-9

Hazard Symbol Irritant Xi
Risk Phrases R36 Irritating to eyes
 R53 May cause long-term adverse effects in the aquatic
 environment

Calcium alkylbenzene sulfonate 4% w/w

Hazard Symbol Harmful Xn, Corrosive C
Risk phrases R21 Harmful in contact with skin
 R34 Corrosive – causes burns
 R52/53 Harmful to aquatic organisms, may cause long-
 term adverse effects in the aquatic environment.

Isobutanol 2% w/w

Hazard Symbol Flammable F, Irritant Xi
Risk phrases: R10 Flammable
 R37/38 Irritating to skin and respiratory system
 R41 Risk of serious damage to eyes
 R67 Vapours may cause drowsiness and giddiness

4. **First Aid Measures:**

Eyes: Irrigate with clean water for at least 15 minutes and seek
 medical attention if any irritation or redness persists.
Skin: Remove contaminated clothing. Wash thoroughly with soap
 and water. Seek medical attention if any irritation or redness
 persists.
Ingestion: If swallowed wash out mouth with water and seek medical
 attention. Do not induce vomiting.
Inhalation: Remove from exposure and provide maximum ventilation

Guide to

Doctors There is no specific antidote for exposure to this product.
 Treatment should be symptomatic and supportive.

5. **Fire Fighting Measures**

Riza will burn, flashpoint 74°C. If involved in a fire, fumes and vapours will be harmful and may include nitrogen oxides, carbon monoxide, carbon dioxide, hydrogen chloride and other chlorinated organic compounds. Fire fighters should wear breathing apparatus.

Use dry chemical, foam, water spray, sand or earth but avoid high pressure water jets.

Prevent entry of the product or contaminated water into watercourses ditches or drains by bunding the area with sand or earth.

If possible, remove intact containers from exposure to fire and spray unopened containers with water mist to keep them cool.

6. **Accidental Release (Spillage)**

Wear suitable protective clothing (see Section 8). Remove contaminated clothing immediately. Do not eat drink or smoke. Keep bystanders away. Absorb spillage with inert material (e.g. sand or earth), shovel or sweep up and transfer to a labelled container for later removal to a safe place for disposal. Wash down the area with plenty of water and industrial detergent when all traces of the spill have been removed. Large spills which soak into the ground should be dug up and transferred to labelled metal drums.

Prevent the spillage from entering watercourses sewers or drains by bunding if necessary. Inform the authorities immediately if contamination of waterways, sewers or drains is threatened or occurs.

7. Storage and Handling

Wash all protective clothing thoroughly after use especially the insides of gloves. Wash hands and exposed skin before meals and after work.

Keep in original container, tightly closed.

Keep cool and dry in a suitable agricultural chemical store under lock and key away from food, drink and animal feedingstuffs and out of reach of children.

Protect from frost.

8. Personal Protection

Wear suitable protective clothing, protective gloves and face-shield to BS2092 when handling the concentrated product or contaminated surfaces. Avoid breathing the spray mist when using. Unlined nitrile, PVC natural rubber or neoprene gloves are recommended.

Decontaminate all personal protective equipment after use.

Occupational Exposure Limits: None applicable

9. Physical and Chemical Properties

Appearance: A yellow to brown mobile liquid

Odour: Characteristic aromatic odour

Solubility: Completely miscible in water

Specific Gravity: 0.97

Viscosity: 10.9 Cp at 20°C (dynamic)

Partition Coefficient: log Kow = 3.7

Flashpoint: 74°C

10. Stability and Reactivity

Stability: Stable at ambient temperatures. Stores for at least 2 years in original containers in normal agricultural chemical storage conditions.

11. Toxicological Information

Acute Toxicity:

Acute oral LD50: >2,000 mg/kg.bw (rat)

Acute dermal LD50: >4,000 mg/kg.bw (rat)

Irritancy: Irritating to skin and eyes

Skin sensitisation: Not a sensitiser (Buehler Test).

Chronic toxicity Possible risk of harm to the unborn child. No

carcinogenic or mutagenic effects have been recorded.

12. Environmental Protection

Riza is toxic to aquatic plants and harmful to fish and aquatic invertebrates.

Aquatic organisms:

96 hour LC 50 Rainbow trout 17.7 mg/litre

48 hour EC50 Daphnia magna 21.5 mg/l

72 hour EC50 Green algae (Desmodesmus) 0.110 mg/l

Bees:

Non-toxic to bees

Earthworms:

Non-toxic to earthworms

13. Disposal of Unwanted Product and Used Containers

Consult the local authorities before disposing of unwanted chemical.

Triple-rinse and puncture used containers and dispose of as permitted by local authorities. Do not re-use containers for any purpose.

14. Transport Information

Road Transport: Environmentally hazardous substance

UN Number: 3082

Class: 9

Proper Shipping Name: Environmentally hazardous substances, liquid, N.O.S (contains tebuconazole)

CPL Packing Group: III

IMDG Description: Marine pollutant

15. Regulatory Information

Hazard symbol: Harmful Xn, Dangerous for the Environment N

Risk phrases: R63 Harmful – possible risk of harm to the unborn child.

R36/38 Irritating to eyes and skin

R50 Very toxic to aquatic organisms

R53 May cause long-term adverse effects in the aquatic environment.

Safety Phrases: S2 Keep out of reach of children

S24/25 Avoid contact with eyes and skin

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

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

S36/37/

39 Wear suitable protective clothing, suitable gloves and eye/face protection

S57 Use appropriate containment to avoid environmental contamination

16. Other Information

The above information is intended to give health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the use of the product, for which purpose the product label and any appropriate technical usage literature available should be consulted and any relevant licences, consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate to the best of the issuer's available knowledge at the date of publication, and will be updated as and when appropriate. No liability will be accepted for any loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Headland is a registered trademark of Headland Agrochemicals Ltd.
Riza is a registered trademark and product of Cheminova A/S, Lemvig, Denmark

Riza is approved by the Pesticides Safety Directorate for use as a fungicide
Registration Number MAPP 12696

Date of Issue:	November 2008
Replaces issue dated:	December 2005
Sections amended since last issue:	Marked † in margin