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

THIS PRODUCT WHEN STORED IN ITS UNOPENED ORIGINAL CONTAINER AWAY FROM DIRECT SUNLIGHT AND IN A COOL. DRY PLACE WILL BE FIT FOR USE FOR AT LEAST 30 MONTHS.

WARNINGS:

Tobacco Seedbeds

Baytan 150 FS treated seedbeds only to be planted with tobacco as follow up crop. Before planting any other crop contact Bayer Zimbabwe. Crop Protection Division, for advice.

Wheat and Barlev:

- 1. Used at the recommended doses, **Baytan 150 FS** displays good seed tolerance. But in conditions particularly of a difficult nature created e.g. by seeding too deeply (ie more than 50 mm) especially in soils that tend to cap emergence of plants from Baytan 150 FS treated seed may be delayed. This is only of temporary nature and has been shown to be of no economic significance under normal growing conditions.
- 2. Should surface compaction of the soil take place after planting and before emergence, this must be broken by means of a suitable implement.
- 3. There may be a delay in the emergence of seed treated with **Baytan 150 FS**. This is only of temporary nature and has been shown to be of no economic significance under normal growing conditions.

COMPATIBILITY

Apply the final drench of insecticide for aphid control in tobacco seedbeds prior to the **Baytan 150 FS** drench.

Baytan 150 FS is not to be mixed with other products when used as a seed dressing.

PRECAUTIONS:

- 1. HANDLE WITH CARE; avoid contact; poisonous by swallowing, inhalation and contact with the skin.
- Toxic to fish and wildlife
- 3. KEEP OUT OF REACH OF CHILDREN.
- 4. KEEP APART FROM FOOD AND FOOD STUFFS.
- Store in original container and KEEP UNDER LOCK AND KEY.
- Treat only seed that is to be used for planting purposes. Never use treated seed for feeding livestock.
- 7. Handle treated seed carefully and clearly mark the bags which contain treated seed "POISONOUS" and NEVER USE this bag again for other purposes.

SYMPTOMS OF POISONING:

No known specific symptoms.

FIRST AID:

- 1. If contamination is likely, and inhalation has occurred, STOP WORK and leave area of contamination.
- 2. In the case of skin contact, remove contaminated clothing and wash skin and hair thoroughly. In the case of eye contact, flush with clean water for
- 3. If water diluted mixture has been swallowed induce vomiting without delay by tickling the back part of the throat. If concentrate has been swallowed, first give copious quantities of either beaten egg white starch solution or milk of magnesia before inducing vomiting. Repeat until vomit fluid is clear and free from smell. Administer artificial respiration if necessary.
- 4 Call a doctor and show this label

NOTE TO PHYSICIAN:

Treat symptomatically.

Packed For: Baver Zimbabwe (Pvt) Ltd P.O. Box AY 78, Amby, Harare, Zimbabwe, Tel. 487211/487245/7 Fax. 487242 Emergency Tel. +27(21) 931-6129

Manufactured by Bayer (Ptv) Ltd

Baytan® is a registered trademark of Bayer CropScience AG, Germany

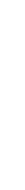
Batch No.: See on pack

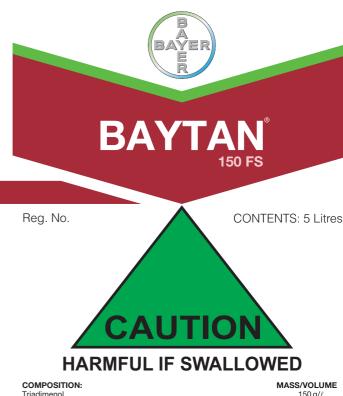
Date of Manufacture: See on pack





Zim/1009/Baytan 150 FS 5L/Full text labe





COMPOSITION:	MASS/VOLUME
Triadimenol	150 g/ℓ
Inert ingredients	850 g/ℓ

Chemical Group: Triazole

A FLOWABLE SYSTEMIC FUNGICIDE FOR THE CONTROL OF SORE SHIN IN TOBACCO AND VARIOUS DISEASES AS A WHEAT AND BARLEY SEED DRESSING









DIRECTIONS FOR USE: USE ONLY AS DIRECTED

CROP	DISEASES	DILUTION RATE OF BAYTAN 150 FS	APPLICATION
TOBACCO Flue-cured and Burley Countenanced by the Tobacco Research Board (Cert. No. 05-08-B-107) Refer to the TRB Handbook for Full details	SORE SHIN (Phizoctonia solani and Fusarium solani)	Treatment of seedbed sites not previously treated with Baytan 150 FS or other registered sore shin product: Mix 330 mℓ/100 ℓ water. Treatment of seedbed sites treated in the previous season with the full rate of Baytan 150 FS or used in combination with Trichoderma (T77): Mix 165 mℓ/100 ℓ water. Re-treatment of seedbed sites more than 2 weeks after the first pulling: Mix 165 mℓ/100 ℓ water.	Mix the required quantity of Baytan 150 FS with a little water and then add the rest of the water and stir well. Keep mixture agitated during use. Drench seedbeds at the rate of 2 //m² two days before pulling. If soil is dry, water lightly before applying Baytan 150 FS drench. Treated seedbeds required for a second or subsequent pulling within 2 weeks need not be treated again. NB: Baytan 150 FS is systemic in action. Where sore shin has been present or suspected in a field in the past, apply these treatments using a watering can fitted with a rose. When applied as recommended, Baytan 150 FS will stimulate root growth after planting out.
		Mix 150 mℓ/100 ℓ water.	As for conventional beds, but drench at 1 ℓ of mix/tray.
WHEAT	LOOSE SMUT (Ustilago tritici) and suppression of early season Helminthosporium sp. STEM RUST (Puccinia recondita) POWDERY MILDEW (Enysiphe graminis)	Baytan 150 FS - Mix 150 mt/100 kg seed.	Mix Baytan 150 FS with 150 mℓ water per 100 kg seed. Ensure complete coverage of the seed. Allow to dry before planting. Seed may be treated with Baytan 150 FS immediately before planting but can also be treated earlier and stored until planting time without germination and fungicidal activity being affected.
BARLEY	LOOSE SMUT (Ustilago nuda) COVERED SMUT (Ustilago hordei) and suppression of early season (Helminthosponium sp.) LEAF RUST (Puccinia recondita) BROWN RUST (Puccinia hordei) POWDERY MILDEW (Erysiphe graminis)		

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 pest 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 failure of the user to follow the label instructions or 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.



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TRIADIMENOL FS150 4X5L BOT WW

Version 3 / Revision Date: 24.11.2017 102000006657 Print Date: 13.04.2018

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name TRIADIMENOL FS150 4X5L BOT WW

Product code (UVP) 04057198

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

Use Fungicide, Seed treatment

1.3 Details of the supplier of the safety data sheet

Supplier Bayer AG

Kaiser-Wilhelm-Allee 1 51373 Leverkusen

Germany

Telefax +49(0)2173-38-7394

Responsible Department Substance Classification & Registration

+49(0)2173-38-3409 (during business hours only)

Email: BCS-SDS@bayer.com

1.4 Emergency telephone no.

Emergency telephone no. Global Incident Response Hotline (24h)

+1 (760) 476-3964 (Company 3E for Bayer AG, Crop Science Division)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Reproductive toxicity: Category 1B

H360 May damage fertility or the unborn child.

Effects on or via lactation

H362 May cause harm to breast-fed children.

Chronic aquatic toxicity: Category 3

H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

Triadimenol



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TRIADIMENOL FS150 4X5L BOT WW

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Signal word: Danger

Hazard statements

H360 May damage fertility or the unborn child.
H362 May cause harm to breast-fed children.
H412 Harmful to aquatic life with long lasting effects.

Restricted to professional users.

EUH401 To avoid risks to human health and the environment, comply with the instructions for

use.

Precautionary statements

P201 Obtain special instructions before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

No particular hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Flowable concentrate for seed treatment (FS)

Triadimenol 150 g/l

Hazardous components

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. / EC-No. / REACH Reg. No.	Classification REGULATION (EC) No 1272/2008	Conc. [%]
Triadimenol	55219-65-3 259-537-6	Acute Tox. 4, H302 Repr. 1B, H360 Lact., H362 Aquatic Chronic 2, H411	13,90
Urea	57-13-6 200-315-5	Not classified	10
Silica, amorphe	7631-86-9 231-545-4 01-2119379499-16-XXXX	Not classified	1

Further information

For the full text of the H-Statements mentioned in this Section, see Section 16.



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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice Move out of dangerous area. Place and transport victim in stable

position (lying sideways). Remove contaminated clothing immediately

and dispose of safely.

Inhalation Move to fresh air. Keep patient warm and at rest. Call a physician or

poison control center immediately.

Skin contact Wash off thoroughly with plenty of soap and water, if available with

polyethyleneglycol 400, subsequently rinse with water.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation

develops and persists.

Ingestion Rinse mouth. Do NOT induce vomiting. Call a physician or poison

control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. In case of ingestion gastric layage should be

considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium

sulphate is always advisable. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Water spray, Carbon dioxide (CO2), Foam, Sand

Unsuitable High volume water jet

5.2 Special hazards arising

from the substance or

mixture

In the event of fire the following may be released:, Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO),

Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective

equipment for firefighters

In the event of fire and/or explosion do not breathe fumes. In the event

of fire, wear self-contained breathing apparatus.

Further information Contain the spread of the fire-fighting media. Do not allow run-off from

fire fighting to enter drains or water courses.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Avoid contact with spilled product or contaminated surfaces. Use

personal protective equipment.

6.2 Environmental

precautions

Do not allow to get into surface water, drains and ground water.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning upSoak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in

suitable, closed containers for disposal.

6.4 Reference to other

sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion

No special precautions required.

Hygiene measures Avoid contact with skin, eyes and clothing. Keep working clothes

separately. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt). Wash hands before breaks and immediately after

handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from direct sunlight. Protect from frost.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

Suitable materialsHDPE (high density polyethylene)7.3 Specific end use(s)Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Urea	57-13-6	10 mg/m3		OES BCS*
		(TWA)		



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*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

8.2 Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection Respiratory protection is not required under anticipated

circumstances of exposure.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's

instructions regarding wearing and maintenance.

Hand protection Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the

contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating.

drinking, smoking or using the toilet.

Material Nitrile rubber
Rate of permeability > 480 min
Glove thickness > 0,4 mm
Protective index Class 6

Directive Protective gloves complying with EN

374.

Eye protection Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection If there is a risk of significant exposure, consider a higher protective

type suit.

Wear standard coveralls and Category 3 Type 6 suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and

should be professionally laundered frequently.

General protective measures If product is handled while not enclosed, and if contact may occur:

Complete suit protecting against chemicals

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form suspension

Colour red

Odour weak, characteristic

pH 8,0 - 10,0 at 100 % (23 °C)

Flash point > 100 °C

No flash point - Determination conducted up to the boiling point.



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Density ca. 1,08 g/cm³ at 20 °C

Water solubility miscible

Partition coefficient: n-

octanol/water

Triadimenol: log Pow: 3,08 - 3,28

Viscosity, dynamic 300 - 450 mPa.s at 20 °C Velocity gradient 7,5 /s

9.2 Other information Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled according to

s prescribed instructions.

10.4 Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials Store only in the original container.

10.6 Hazardous

decomposition products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 2.000 mg/kg

The information is derived from the properties of the individual

components.

Acute dermal toxicity LD50 (Rat) > 2.000 mg/kg

The information is derived from the properties of the individual

components.

Skin irritation No skin irritation (Rabbit)

The information is derived from the properties of the individual

components.

Eye irritation No eye irritation (Rabbit)

The information is derived from the properties of the individual

components.

Sensitisation Non-sensitizing.

The information is derived from the properties of the individual

components.

Assessment STOT Specific target organ toxicity - single exposure

Triadimenol: Based on available data, the classification criteria are not met.



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Assessment STOT Specific target organ toxicity - repeated exposure

Triadimenol did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

Triadimenol was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Triadimenol caused at high dose levels an increased incidence of tumours in mice in the following organ(s): Liver. The increased tumour incidence is not considered to be treatment related.

Assessment toxicity to reproduction

Triadimenol caused reduced fertility, reduced lactation rate. The reproduction toxicity seen with Triadimenol is related to parental toxicity.

Assessment developmental toxicity

Triadimenol caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Triadimenol are related to maternal toxicity.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 21,3 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient triadimenol.

Toxicity to aquatic

invertebrates

EC50 (Daphnia magna (Water flea)) 51 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient triadimenol.

Toxicity to aquatic plants EC50 (Raphidocelis subcapitata (freshwater green alga)) 38 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient triadimenol.

12.2 Persistence and degradability

Biodegradability Triadimenol:

Not rapidly biodegradable

Koc Triadimenol: Koc: 273

12.3 Bioaccumulative potential

Bioaccumulation Triadimenol: Bioconcentration factor (BCF) 21

Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Triadimenol: Moderately mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Triadimenol: This substance is not considered to be persistent,

bioaccumulative and toxic (PBT). This substance is not considered to be



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very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Additional ecological

information

No other effects to be mentioned.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product In accordance with current regulations and, if necessary, after

consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Contaminated packaging

Not completely emptied packagings should be disposed of as

hazardous waste.

Waste key for the unused

product

02 01 08* agrochemical waste containing hazardous substances

SECTION 14: TRANSPORT INFORMATION

According to ADN/ADR/RID/IMDG/IATA not classified as dangerous goods.

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

14.1 – 14.5 Not applicable.

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION

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

Further information

WHO-classification: III (Slightly hazardous)

15.2 Chemical safety assessment

A chemical safety assessment is not required.

SECTION 16: OTHER INFORMATION

Text of the hazard statements mentioned in Section 3

H302 Harmful if swallowed.



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H360 May damage fertility or the unborn child.
 H362 May cause harm to breast-fed children.
 H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number ECx Effective concentration to x % EC-No. European community number

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances

EN European Standard EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk (IBC Code)

ICx Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

Conc. Concentration

LCx Lethal concentration to x %

LDx Lethal dose to x %

LOEC/LOEL Lowest observed effect concentration/level

MARPOL: International Convention for the prevention of marine pollution from ships

N.O.S. Not otherwise specified

NOEC/NOEL No observed effect concentration/level

OECD Organization for Economic Co-operation and Development

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

TWA Time weighted average

UN United Nations

WHO World health organisation

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.