

SAFETY DATA SHEET

Tebuconazole 250 EW

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Product No FNG56796-GHS R-9129 9500032 HT 308 25 EW

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

Product identifier

Tebuconazole 250 EW

Synonyms Tebuconazole 250 EW

Pure substance/mixture Mixture

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

Recommended Use Fungicide

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address ADAMA Makhteshim Ltd

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Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Serious eye damage/eye irritation
Reproductive toxicity
Category 2 - (H319)
Category 2 - (H361)
Specific target organ toxicity (single
Category 3 - (H335)

exposure)

Acute aquatic toxicity

Chronic aquatic toxicity

Category 2 - (H401)

Category 2 - (H410)

Category 4 - (H227)

Label Elements

Hazard pictograms

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Signal word Warning

Hazard Statements H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H361 - Suspected of damaging fertility or the unborn child if inhaled

H401 - Toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H227 - Combustible liquid

Precautionary Statements P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking

P243 - Take precautionary measures against static discharge

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

P501 - Dispose of contents/ container to an approved waste disposal plant

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P201 - Obtain special instructions before use

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

Other Hazards
No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	Weight-%	CAS No	EC No	GHS Classification	M-Factor
Tebuconazole	25-27	107534-96-3	403-640-2	Acute Tox. 4 (H302)	
				Repr. 2 (H361d)	
				Aquatic Acute 1 (H400)	M=1
				Aquatic Chronic 1 (H410)	M=10
N,N-dimethyldecanamide	60-70	14433-76-2	238-405-1	Skin Irrit. 2 (H315)	
				Eye Irrit. 2 (H319)	
				STOT SE 3 (H335)	
				Aquatic Chronic 3 (H412)	

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

First aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aider: Pay attention to self-protection!.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

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a physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician if necessary.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Ingestion Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

Self-protection of the first aiderUse personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

Special hazards arising from the substance or mixture

No specific hazard known.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.



Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits

Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand Protection Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact

(recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5

mm), butyl rubber (0.7 mm).

Body Protection Use suitable protective clothing and equipment if required, such as safety goggles certified

to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water

repellent woven coverall with 65% polyester and 35 % cotton.

Respiratory protection Use only with adequate ventilation.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular

cleaning of equipment, work area and clothing is recommended.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Property Values Method Remarks

Appearance Physical state Liquid Color light yellow Odor characteristic

Odor threshold : No data available

CIPAC MT 75.3 pН : 5.1-6.1 aqueous solution, 1 %

: No data available Melting point/freezing point °C Boiling point/boiling range °C : No data available

CIPAC MT 12.2 Flash point °C : >79

Evaporation rate : Not Applicable Flammability (solid, gas) : Not Applicable : No data available Upper/lower flammability or

explosive limits

Partition Coefficient

Vapor pressure kPa : No data available Vapor density : No data available

: 0.9-1.0 CIPAC MT 3.2.1 Relative density

Solubility(ies) mg/l : No data available

(n-octanol/water) Log Pow

Autoignition temperature °C **EEC A.15** : 357

: No data available Decomposition temperature °C

ASTM D445-53T Kinematic viscosity mm2/s 40 °C : 13.2590

Explosive properties : Not an explosive

Oxidizing properties : No

Other Information

Bulk density g/ml Surface tension mN/m : <60

Section 10: STABILITY AND REACTIVITY

Reactivity

Not available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

To avoid thermal decomposition, do not overheat.

Incompatible Materials

Strong bases, Strong acids

Hazardous Decomposition Products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION



See Section 12 for more

information

Information on toxicological effects

Acute toxicity

 Values
 Species
 Method

 Oral LD50 mg/kg
 : > 2000
 Rat
 OECD 401

 Dermal LD50 mg/kg
 : > 2000
 Rat
 OECD 402

 Inhalation LC50 mg/l/4h
 : > 4.95
 Rat
 OECD 403

Maximum attainable concentration

Remarks

Skin corrosion/irritation: Non-irritating to the skinRabbitOECD 404Serious eye damage/eye irritation: Irritating to eyesRabbitOECD 405Respiratory/skin sensitization: Not a skin sensitizerGuinea pigOECD 406

Chronic toxicity

Germ cell mutagenicity

Chemical Name

Tebuconazole : Not classified

Carcinogenicity Chemical Name

Tebuconazole : Not Carcinogenic

Reproductive toxicity .

Chemical Name

Tebuconazole : H361d - Suspected of damaging the unborn child

STOT - single exposure

Chemical Name

Tebuconazole : No data available

STOT - repeated exposure

Chemical Name

Tebuconazole : No data available

Aspiration hazard Chemical Name

Tebuconazole : No data available

Section 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Acute toxicityValuesSpeciesMethodRemarksFish 96-hour LC50 mg/l: 4.68Rainbow troutOECD 203Static

Crustacea 48-hour EC50 mg/l : 16 Daphnia magna OECD 202
Algae 72-hour EC50 mg/l : 9.12 D. Subspicatus OECD 201

Other plants EC50 mg/l : No data available

Chronic aquatic toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish NOEC mg/l : No data available
Crustacea NOEC mg/l : No data available
Algae NOEC mg/l : No data available
Other plants NOEC mg/l : No data available

Terrestrial Toxicity
Birds Oral LD50 mg/kg

Chemical Name

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Tebuconazole : 1988 Bobwhite quail

Bees Oral LD50 µg/bee

Chemical Name

Tebuconazole : 83.05 Oral

Persistence and degradability

Abiotic Degradation Values Water DT50 days

Method Remarks

Chemical Name

Tebuconazole : 365

Soil DT50 days **Chemical Name**

Tebuconazole : 34.8

Biodegradation **Chemical Name**

: Not readily biodegradable OECD 301B Tebuconazole

Bioaccumulative potential

Partition Coefficient Values Method Remarks

(n-octanol/water) Partition Coefficient (n-octanol/water) Log Pow

Chemical Name

Tebuconazole : 3.7

Bioconcentration factor (BCF)

Chemical Name

Tebuconazole : 78

Mobility in soil

Adsorption/Desorption Values Method Remarks

Chemical Name

KOC Tebuconazole : 769

Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

Section 14: TRANSPORTATION INFORMATION



IMDG/IMO

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole)

Hazard Class 9
Packing Group III

Marine pollutant This material meets the definition of a marine pollutant Yes

Special precautions for user

RID/ADR

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole)

Hazard Class9Packing GroupIIIEnvironmental hazardYes

Special precautions for user

ICAO/IATA

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole)

Hazard Class 9
Packing Group III
Environmental hazard Yes

Special precautions for user

Transport in bulk according to Not Applicable

Annex II of MARPOL 73/78 and the

IBC Code



^{*} Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

Section 15: REGULATORY INFORMATION

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

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H361d - Suspected of damaging the unborn child

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

Revision NoteChanges made to the last version are labeled with this sign ***.



List of Acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CAS Number - Chemical Abstracts Service number EC Number - EINECS and ELINCS Number

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic substance

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT - Specific Target Organ Toxicity

vPvB - Very Persistent and Very Bioaccumulative

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

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