



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Gizmo
Version 4 (Georgia)

Issuing date: 2013/05/13

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name : **Gizmo**

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

Use : fungicide

1.3. Details of the supplier of the safety data sheet

Nufarm GmbH & Co KG
St.-Peter-Str. 25
A-4021 Linz
Austria
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Telefax: +43/732/6918-64010
E-mail address: Johann.Mayr@at.nufarm.com

1.4. Emergency telephone number

+43/732/6914-2466 (Linz/Austria production site)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

EEC/99/45 :	R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Repr.Cat.3	R63 - Possible risk of harm to the unborn child.

2.2. Label elements

according directive 1999/45/EG

Pictogram:



Xn



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- R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63 - Possible risk of harm to the unborn child.
- S 2 - Keep out of the reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
S20/21 - When using do not eat, drink or smoke.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S46 - If swallowed, seek medical advice immediately and show this container or label.

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : (aqueous suspension)
Tebuconazole 60g/L

3.2. Mixtures

Components:

Tebuconazole

CAS-No.: 107534-96-3
EINECS-No. / ELINCS No.: 403-640-2
REACH No.:
Concentration: 5,7 % (w/w)

Classification:

EG_1272/08 :	Repr.Cat.2	H361 - Suspected of damaging fertility or the unborn child.
	AcuteTox.4	H302 - Harmful if swallowed.
	AquaticChronic2	H411 - Toxic to aquatic life with long lasting effects.
EEC/67/548 :	Repr.Cat.3	R63 - Possible risk of harm to the unborn child.
	Xn	R22 - Harmful if swallowed.
	N	R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

4.1. Description of first aid measures

Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.



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- Skin contact : Take off all contaminated clothing immediately. Wash off with soap and plenty of water. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
- Inhalation : Remove to fresh air, seek medical attention. Oxygen or artificial respiration if needed.
- Ingestion : Do NOT induce vomiting. Rinse mouth. Immediately give large quantities of water to drink. Never give anything by mouth to an unconscious person. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

4.3. Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

- Suitable extinguishing media : Water spray, Dry powder, Sand, Foam, Carbon dioxide (CO₂)

- Extinguishing media which shall not be used for safety reasons : High volume water jet

5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighting : In the event of fire (HCl, Cl₂, NO_x, CO) may be formed.

5.3. Advice for firefighters

- Special protective equipment for firefighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.
- Further Information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES



6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. (see Chapter 8)

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Use mechanical handling equipment.

Additional advice : Never return spills in original containers for re-use.

6.4. Reference to other sections

see Chapter 13

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice : Wear personal protective equipment. Keep out of the reach of children.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.

Advice on common storage : Keep away from food, drink and animal feeding stuffs.

Storage stability

Storage temperature : > 0 °C

7.3. Specific end use(s)

none

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters
no data available



8.2. Exposure controls

Personal protective equipment

- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
- Hand protection : PVC or nitrile-rubber gloves
- Eye protection : Tightly fitting safety goggles
- Skin and body protection : Long sleeved clothing, Rubber or plastic boots
- Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.
- Protective measures : Avoid contact with skin, eyes and clothing. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

- Form : suspension
- Colour : red
- Odour : slight
- Melting point/range : no data available
- Boiling point/boiling range : no data available
- Flash point : The product is not flammable.
- Ignition temperature : no data available
- Upper explosion limit : no data available
- Lower explosion limit : no data available
- Vapour pressure : 1,7E-06 Pa
at 20 °C
(Tebuconazole)



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Density	:	1,057 g/cm ³
Water solubility	:	36,0 mg/l at 20 °C (Tebuconazole)
pH	:	8,4
Partition coefficient: n-octanol/water	:	log POW = 3,7 (Tebuconazole)
Dissociation constant	:	no data available
Viscosity, dynamic	:	no data available
Surface tension	:	54,6 mN/m at 20 °C

9.2. Other information

none

10. STABILITY AND REACTIVITY

10.1. Reactivity

no data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

no data available

10.4. Conditions to avoid

No dangerous reaction known under conditions of normal use.

10.5. Incompatible materials to avoid



none

10.6. Hazardous decomposition products

no data available

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

- Acute oral toxicity : LD50 rat female
Dose: > 2.000 mg/kg
- Acute dermal toxicity : LD50 rat
Dose: > 2.000 mg/kg
- Acute inhalation toxicity : Remarks: no data available
- Skin irritation : rabbit
Result: No skin irritation
- Eye irritation : rabbit
Result: No eye irritation
- Sensitisation : Classification: Did not cause sensitization.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

- Toxicity to fish : LC50 *Oncorhynchus mykiss* (rainbow trout)
Dose: > 100 mg/l
Testing period: 96 h
- Toxicity to daphnia : LC50
Dose: > 100 mg/l
Testing period: 48 h
- Toxicity to algae : EC50
Dose: 4,01 mg/l



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Exposure time: 72 h
Test substance: (Tebuconazole)

12.2. Persistence and degradability

Biodegradability : no data available

12.3. Potential bioaccumulation

Bioaccumulation : no data available

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6. Other adverse effects

none

13. DISPOSAL CONSIDERATIONS

According to European Directive 2000/532/EC as amended :

Waste Code : 02 01 08 (agrochemical waste containing dangerous substances)

13.1. Waste treatment methods

Product : In accordance with local and national regulations.

Contaminated packaging : Do not re-use empty containers.

Dispose empty and triple rinsed container within a local disposing system according to EC directive 94/62/EC

14. TRANSPORT INFORMATION



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14.1. UN number

14.2. Proper shipping name

not applicable

14.3. Transport hazard class(es)

ADR/RID :

Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.

IMDG :

Not a dangerous substance as defined in the above regulations.

IATA-DGR :

Not a dangerous substance as defined in the above regulations.

14.4. Packaging group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

none

15. REGULATORY INFORMATION

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

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.

15.2. Chemical Safety Assessment



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none

16. OTHER INFORMATION

Print Date : 2013/05/13

The date format YYYY/MM/DD is used according to ISO 8601.
(Alterations are indicated in the left hand margin by: ||)

The information provided in this 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.

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