

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



GIZMO 60 FS

Version 1.0

Revision Date 07.07.2014

Print Date 07.07.2014

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : GIZMO 60 FS

Product code : CA2419

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

Use of the Substance/Mixture : Fungicide

1.3 Details of the supplier of the safety data sheet

Company : Nufarm S.A.S
28 boulevard Zéphirin Camélinat
92230 Gennevilliers
Telephone : +330140855050
Telefax : +330147922545
E-mail address : FDS@fr.nufarm.com
Responsible/issuing person

1.4 Emergency telephone number

Nufarm S.A.S. : +33 1 40 85 51 15
National emergency telephone number : not available

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Reproductive toxicity, Category 2 H361d: Suspected of damaging the unborn child.
Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

R63: Possible risk of harm to the unborn child.

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

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Hazard statements	: H361d H411	Suspected of damaging the unborn child. Toxic to aquatic life with long lasting effects.
Precautionary statements	: Prevention: P281 Response: P308 + P313 P391 Storage: P405 Disposal: P501	Use personal protective equipment as required. IF exposed or concerned: Get medical advice/ attention. Collect spillage. Store locked up. Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling:

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

2.3 Other hazards

A Chemical Safety Assessment is not required for this mixture.

: A Chemical Safety Assessment is not required for this mixture.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Flowable concentrate for seed treatment (FS)

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Tebuconazole	107534-96-3 403-640-2	Repr.Cat.3; R63 Xn; R22 N; R51-R53	Repr. 2; H361d Acute Tox. 4; H302 Aquatic Chronic 2; H411	5,68 W/W

For the full text of the R-phrases mentioned in this Section, see Section 16.

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

- If inhaled : Move to fresh air.
- In case of skin contact : Take off all contaminated clothing immediately. Wash immediately affected parts with plenty of water and soap.
- In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

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 : Symptomatic treatment

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray, Dry powder, Foam, Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. In the event of fire (CO_x) may be formed.
- Hazardous combustion products :

5.3 Advice for firefighters

- Special protective equipment for firefighters : Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.

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Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8. Never return spills in original containers for re-use.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, universal binder ...).
Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.

Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep out of reach of children. Store in original container. Keep in a well-ventilated place.

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

7.3 Specific end use(s)

Specific use(s) : none

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

If the sub-section is blank, no value is applicable.

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Material : Nitrile gloves

Skin and body protection : Long sleeved clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : red

Odour : no data available

Odour Threshold : no data available

pH : 7,26

Melting point/range : 105 °C Active substance

Boiling point/boiling range : Decomposition: Decomposes below the boiling point.
Active substance

Flash point : > 90 °C
boils before flash

Evaporation rate : not applicable

Flammability (solid, gas) : not applicable

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Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: negligible
Relative vapour density	: not applicable
Relative density	: no data available
Density	: 1,057 g/cm ³ at 20 °C
Bulk density	: not applicable
Water solubility	: 36 mg/l Tebuconazole at 20 °C pH: 7,2
Solubility in other solvents	: > 200 g/l Test on active ingredient at 20 °C Medium: Acetone
	> 200 g/l Test on active ingredient at 20 °C Medium: Dimethylformamide
Partition coefficient: n-octanol/water	: log Pow: 3,7 at 20 °C pH: 7 Tebuconazole
Auto-ignition temperature	: > 400 °C
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

9.2 Other information

Surface tension : 54,61 mN/m, 20 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

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10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if stored and applied as directed.

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available

Other information : no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity : LD50 rat: > 2.000 mg/kg

Acute inhalation toxicity : No co-formulants are classified as an inhalation hazard

Acute dermal toxicity : LD50 rat: > 2.000 mg/kg

Skin corrosion/irritation : Species: rabbit
Result: No skin irritation

Serious eye damage/eye irritation : Species: rabbit
Result: No eye irritation

Respiratory or skin sensitisation : Species: mouse
Result: Did not cause sensitization.

STOT - single exposure : Remarks: no data available

STOT - repeated exposure : Remarks: no data available

Components:

Tebuconazole :

Acute oral toxicity : LD50 rat: 1.700 mg/kg

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Acute inhalation toxicity	: LC50 rat: 5,093 mg/l Exposure time: 4 h
Acute dermal toxicity	: LD50 rat: > 2.000 mg/kg
Skin corrosion/irritation	: Result: No skin irritation
Serious eye damage/eye irritation	: Result: No eye irritation
Respiratory or skin sensitisation	: Result: Did not cause sensitization.
Carcinogenicity	: Species: Not carcinogenic
Reproductive toxicity	: Species: rat NOAEL: 72,3 mg/kg, Test substance: Tebuconazole
Teratogenicity	: Species: rat 30 mg/kg Test substance: Tebuconazole Species: rabbit 10 mg/kg Test substance: Tebuconazole
STOT - single exposure	: Remarks: no data available
STOT - repeated exposure	: Remarks: no data available
Further information	: Mutagenicity Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (green algae)): 12,3 mg/l Exposure time: 72 h

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NOEC (*Pseudokirchneriella subcapitata* (green algae)): 1 mg/
Exposure time: 72 h

Toxicity to terrestrial organisms : LC50: > 1.000 mg/kg
Exposure duration: 14 d
Species: *Eisenia fetida* (earthworms)

LD50: > 8,8 µg Tebuconazole /bee, oral
Species: *Apis mellifera* (bees)

LD50: > 1,7 µg Tebuconazole /bee, contact
Species: *Apis mellifera* (bees)

Components:

Tebuconazole :

Toxicity to fish : (*Oncorhynchus mykiss* (rainbow trout)): 4,4 mg/
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (*Daphnia magna* (Water flea)): 2,79 mg/
Exposure time: 48 h

Toxicity to algae : EbC50 (*Selenastrum capricornutum* (green algae)): 2,83 mg/
Exposure time: 72 h

EC50 (*Lemna gibba*): 0,144 mg/
Exposure time: 14 d

Toxicity to terrestrial organisms : LD50: > 83,05 µg/bee, oral
Exposure duration: 2 d
Species: *Apis mellifera* (bees)

LD50: > 200 µg/bee, contact
Exposure duration: 2 d
Species: *Apis mellifera* (bees)

12.2 Persistence and degradability

Product:

Biodegradability : no data available

Physico-chemical removability : no data available

Components:

Tebuconazole :

Biodegradability : Not readily biodegradable

Physico-chemical removability : no data available

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12.3 Bioaccumulative potential

Product:

Bioaccumulation : no data available

Partition coefficient: n-octanol/water : log Pow: 3,7 at 20 °C
Tebuconazole

Components:

Tebuconazole :

Bioaccumulation : Not readily biodegradable

12.4 Mobility in soil

Product:

Mobility : no data available

Components:

Tebuconazole :

Mobility : low leaching potential

12.5 Results of PBT and vPvB assessment

Product:

Assessment : A Chemical Safety Assessment is not required for this mixture.

Components:

Tebuconazole :

Assessment : A Chemical Safety Assessment is not required for this mixture.

12.6 Other adverse effects

Product:

Additional ecological information : No other known adverse effects on the environment

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not empty into drains.
Dispose of in accordance with local regulations.

Contaminated packaging : Do not re-use empty containers.
Dispose of empty packages through the specific collection services.

SECTION 14: Transport information

14.1 UN number

ADR : 3082

IMDG : 3082

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IATA : 3082

14.2 Proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.

IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.

14.3 Transport hazard class

ADR : 9

IMDG : 9

IATA : 9

14.4 Packing group

ADR

Hazard Identification Number : 90

Labels : 9

Tunnel restriction code : (E)

IMDG

Packaging group : III

Labels : 9

EmS Number : F-A,S-F

IATA

Packaging group : III

Labels : 9

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA

Environmentally hazardous : yes

14.6 Special precautions for user

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : not applicable

SECTION 15: Regulatory information

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

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15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

SECTION 16: Other information

Full text of R-Phrases

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
R22	Harmful if swallowed.
R51	Toxic to aquatic organisms.

Full text of H-Statements

H302	Harmful if swallowed.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Further information

Other information : Please note the convention used in this document for decimal points and commas for numerical values is as demonstrated by the example: 2,000 is two (to 3 decimal places) and not two thousand, whilst 1.000 is one thousand and not 1 (to 3 decimal places)

This version replaces all previous versions.

Alterations are indicated in the left hand margin by: II

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.