



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

CA2368

Version 1 (UK)

Issuing date: 2012/02/27

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

1.1. Product identifier

Trade name : **CA2368**

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 UK Limited
Wyke Lane
Wyke
Bradford
West Yorkshire BD12 9EJ
United Kingdom
Telephone: +44 (0)1274 691234
Telefax: +44 (0)1274 691176
E-mail address: infouk@uk.nufarm.com

1.4. Emergency telephone number

+44 (0)1274 691234

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

| | | |
|-------------|----|--|
| EEC/99/45 : | Xn | R21/22 - Harmful in contact with skin and if swallowed. |
| | Xi | R36/38 - Irritating to eyes and skin. |
| | N | R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| | Xn | R63 - Possible risk of harm to the unborn child. |

2.2. Label elements

according directive 1999/45/EG

Pictogram:



Xn



N

- R21/22 - Harmful in contact with skin and if swallowed.
 R36/38 - Irritating to eyes and skin.
 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.
- S 2 - Keep out of the reach of children.
 S13 - Keep away from food, drink and animal feedingstuffs.
 S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37 - Wear suitable protective clothing and gloves.
 S35 - This material and its container must be disposed of in a safe way.
 S57 - Use appropriate container to avoid environmental contamination.

2.3. Other hazards

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Emulsion, oil in water (EW)
 250 g/L Tebuconazole

3.2. Mixtures

| Components | CAS-No. | EINECS-No. ELINCS No. | REACH No. | Symbol(s) R-phrase(s) | Concentration (w/w) |
|--------------|-------------|--------------------------|-----------|------------------------------|------------------------|
| Tebuconazole | 107534-96-3 | 403-640-2 | | N, Xn R22, R51/53, R63 | 26.03 % |

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.
- Skin contact : Take off all contaminated clothing immediately. Wash off



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

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. FIRE-FIGHTING 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 fire fighting : In the event of fire (HCl, Cl₂, NO_x, CO) may be formed.

5.3. Advice for firefighters

- Special protective equipment for fire-fighters : 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



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Use personal protective equipment. (see Chapter 8)

6.2. Environmental precautions

Do not contaminate water. 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). Sweep up and shovel into suitable containers for disposal.

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.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container. Keep container tightly closed in a dry and well-ventilated place.

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

7.3. Specific end uses

none

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters
(EH40/2005 Workplace exposure limits)

| Components | CAS-No. | National occupational exposure limits | Note |
|--------------|-------------|---------------------------------------|-----------------------------|
| Tebuconazole | 107534-96-3 | | no classification available |



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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 : Safety glasses, , or:, Goggles
- Skin and body protection : lightweight protective clothing
- 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. General industrial hygiene practice.
- 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

- Physical state : liquid
- Colour : yellowish
- Odour : amine-like
- Flash point : >100 °C
- Vapour pressure : 1.3E+00 Pa
at 20 °C
(Tebuconazole)
- Density : 0.9604 g/cm³
- Water solubility : 0.036 g/l
at 20 °C
(Tebuconazole), (pH 7), (pH 9)
- pH : no data available
- Partition coefficient: n-
octanol/water : log POW = 3.7
at 20 °C



(Tebuconazole)

Surface tension : 37.3 mN/m

9.2. Other information

none

10. STABILITY AND REACTIVITY

10.1. Reactivity

no data available

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

No decomposition if stored and applied as directed.

10.5. Incompatible materials to avoid

none

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity : LD50 rat
Dose: 1,700 mg/kg
Test substance: (Tebuconazole)

Acute dermal toxicity : LD50 rat
Dose: > 2,000 mg/kg
Test substance: (Tebuconazole)



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- Acute inhalation toxicity : LC50
Exposure time: 4 h
Dose: > 5.093 mg/l
Test substance: (Tebuconazole)
- Skin irritation : Result: No skin irritation
Test substance: (Tebuconazole)
- Eye irritation : Result: No eye irritation
Test substance: (Tebuconazole)
- Sensitisation : Guinea-pig
Result: Did not cause sensitization on laboratory animals.
Test substance: (Tebuconazole)

12. ECOLOGICAL INFORMATION

12.1. Toxicity

- Toxicity to birds : LD50 Toxicity to birds
Dose: 1,988 mg/kg
Test substance: (Tebuconazole)
- Toxicity to bees : LD50 (contact) Apis mellifera (Honey bee)
Dose: > 200 mg/kg
Test substance: (Tebuconazole)
- Toxicity to fish : LC50
Dose: 4.4 mg/l
Testing period: 96 h
Test substance: (Tebuconazole)
- Toxicity to daphnia : EC50 Daphnia
Dose: 2.79 mg/l
Test substance: (Tebuconazole)
- Toxicity to algae : EC50 Toxicity to algae
Dose: 1.96 mg/l
Exposure time: 72 h
Test substance: (Tebuconazole)



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12.2. Persistence and degradability

Biodegradability : According to the results of tests of biodegradability this product is not readily biodegradable.
Test substance: (Tebuconazole)

12.3. Potential bioaccumulation

Bioaccumulation : Does not bioaccumulate.

12.4. Mobility in soil

Kfoc = 769 ml/g, 1/n=0.84 (Tebuconazol, arithmetic mean from 9 data sets)

12.5. Results of PBT and vPvB assessment

This mixture contains substances considered to be persistent, bioaccumulating and 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 : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product. Do not re-use empty containers.

14. TRANSPORT INFORMATION

14.1. UN number

UN3082



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14.2. Proper shipping name

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.*(Tebuconazole)

14.3. Transport hazard class(es)

ADR/RID :
Class : 9

IMDG :
Class : 9

IATA-DGR :
Class : 9

14.4. Packaging group

ADR/RID : III

IMDG : III

IATA-DGR : III

14.5. Environmental hazards

IMDG
Marine pollutant : Y

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

none



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16. OTHER INFORMATION

Print Date : 2012/02/27

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

Full text of R-phrases referred to under sections 2 and 3

- R22 - Harmful if swallowed.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R63 - Possible risk of harm to the unborn child.

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.

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.