



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Matilda

Version 6 (UK)

Issuing date: 2011/01/07

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

1.1. Product identifier

Trade name : **Matilda**

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 696603

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

EEC/99/45 :		R43 - May cause sensitization by skin contact.
	Xn	R63 - Possible risk of harm to the unborn child.
	N	R50 - Very toxic to aquatic organisms.

2.2. Label elements

according directive 1999/45/EG

Pictogram:



Xn



N

- R43 - May cause sensitization by skin contact.
 R50 - Very toxic to aquatic organisms.
 R63 - Possible risk of harm to the unborn child.
- S24 - Avoid contact with skin.
 S35 - This material and its container must be disposed of in a safe way.
 S36/37 - Wear suitable protective clothing and gloves.
 S46 - If swallowed, seek medical advice immediately and show this container or label.
 S57 - Use appropriate container to avoid environmental contamination.
 S63 - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

2.3. Other hazards

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture of active ingredient and additives
 Contains 68% Mancozeb and 4.5% Cymoxanil

3.2. Mixtures

Components	CAS-No.	EINECS-No. ELINCS No.	REACH No.	Symbol(s) R-phrase(s)	Concentration (w/w)
mancozeb	8018-01-7			N, Xi R37, R43, R50/53	68.0 %
cymoxanil	57966-95-7	261-043-0		Xn, N R22, R43, R50/53	4.5 %

4. FIRST AID MEASURES

4.1. Description of first aid measures

- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
- Skin contact : Wash off immediately with soap and plenty of water. Take off



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- all contaminated clothing immediately. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
- Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Call a physician immediately.
- Ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

- Hazards : 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, Carbon dioxide (CO₂), Dry powder, Alcohol-resistant foam
- 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 (NO_x, CO_x, SO₂) 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



Wear 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 : 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.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

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 cool, well-ventilated place.

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

Storage stability

Storage temperature : < 49 °C

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	Note



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		exposure limits	
mancozeb	8018-01-7		no classification available
cymoxanil	57966-95-7		no classification available

8.2. Exposure controls

Personal protective equipment

- Respiratory protection : Suitable mask with particle filter P3 (European Norm 143)
- Hand protection : PVC or nitrile-rubber gloves
- Eye protection : Tightly fitting safety goggles
- Skin and body protection : Protective suit
- 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

- Physical state : solid
- Form : wettable powder
- Colour : yellow
- Odour : none
-
- Bulk density : 580 kg/m³
-
- Water solubility : dispersible
-
- pH : 6.1
at 10 g/l (20 °C)
-
- Partition coefficient: n-
octanol/water : log POW = < 1.49
(Mancozeb)
- log POW = 0.66



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(pH 7), (Cymoxanil)

9.2. Other information

none

10. STABILITY AND REACTIVITY

10.1. Reactivity

no data available, not applicable

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

Acids

10.6. Hazardous decomposition products

none

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity : LD50 rat
Dose: > 2,000 mg/kg

Acute dermal toxicity : LD50 rat
Dose: > 5,000 mg/kg

Acute inhalation toxicity : LC50 rat
Exposure time: 4 h
Dose: > 5.06 mg/l



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Test substance: (Cymoxanil)

LC50 rat
Exposure time: 4 h
Dose: > 5.14 mg/l
Test substance: (Mancozeb)

- Skin irritation : Classification: Irritating to skin.
- Eye irritation : Classification: Irritating to eyes.
- Sensitisation : Classification: May cause sensitization by skin contact.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

- : LC50 Coturnix japonica (Japanese quail)
Dose: > 3,200 ppm
Testing period: 10 d
Test substance: (Mancozeb)
- : LC50 Colinus virginianus (Bobwhite quail)
Dose: > 2,250 ppm
Testing period: 8 d
Test substance: (Cymoxanil)
- Toxicity to fish : LC50 Lepomis macrochirus (Bluegill Sunfish)
Dose: 1.63 mg/l
Testing period: 96 h
Test substance: (Mancozeb)
- : LC50 Lepomis macrochirus (Bluegill Sunfish)
Dose: 29 mg/l
Testing period: 96 h
Test substance: (Cymoxanil)
- Toxicity to daphnia : EC50 Daphnia
Dose: 1.3 mg/l
Testing period: 48 h
Test substance: (Mancozeb)



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EC50 Daphnia
Dose: 27 mg/l
Testing period: 48 h
Test substance: (Cymoxanil)

Toxicity to algae : EC50 Toxicity to algae
Dose: 0.43 mg/l
Exposure time: 72 h
Test substance: (Mancozeb)

EC50 Toxicity to algae
Dose: 0.35 mg/l
Exposure time: 72 h
Test substance: (Cymoxanil)

12.2. Persistence and degradability

Stability in soil : DT50: 7.3 d
(Cymoxanil)

DT50: 1 - 3 h
(Mancozeb)

12.3. Potential bioaccumulation

Bioaccumulation : No bioaccumulation.

12.4. Mobility in soil

K_{foc} = 15.1 - 87.1; 1/n = 0.81 - 0.88 (Cymoxanil)
K_{oc} = 363 - 2334 (Mancozeb)

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)



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13.1. Waste treatment methods

Product : Dispose of product and packaging in accordance with The Green Code. (The Code of Practice for the safe use of Pesticides on Farms and Holdings.) A MAFF Publication.

Contaminated packaging : Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1. UN number

UN3077

14.2. Proper shipping name

UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.*(Mancozeb)

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



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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

16. OTHER INFORMATION

Print Date : 2011/01/07

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

- R37 - Irritating to respiratory system.
- R43 - May cause sensitization by skin contact.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R22 - Harmful if swallowed.
- R43 - May cause sensitization by skin contact.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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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