



SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

Matilda

Version 5 (UK)

Issue date 11/02/2009

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

Product information

Trade name : **Matilda**

Usage : fungicide

Company : 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 : infouk@uk.nufarm.com

Emergency telephone : **+44(0)1274 696603**

2. HAZARDS IDENTIFICATION

Irritating to eyes, respiratory system and skin.
May cause sensitization by skin contact.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-phrases(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

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 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.



SAFETY DATA SHEET
according to regulation (EC) no 1907/2006

Matilda
Version 5 (UK)

Issue date 11/02/2009

Ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Notes to physician

Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards during fire fighting : In the event of fire (NO_x,CO_x,SO₂) may be formed.

Special protective equipment for fire-fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

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

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear personal protective equipment. (see Chapter 8)

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for cleaning up : Sweep up and shovel into suitable containers for disposal.

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

7. HANDLING AND STORAGE

Handling

Safe handling advice : Wear personal protective equipment.

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

Storage

Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a cool, well-ventilated place.



SAFETY DATA SHEET
according to regulation (EC) no 1907/2006

Matilda
Version 5 (UK)

Issue date 11/02/2009

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Appearance

- Physical state : solid
- Form : wettable powder
- Colour : yellow
- Odour : none

Other data

- Bulk density : 580 kg/m³
- Water solubility : dispersible
- pH : 6.1
at 10 g/l (20 °C)
- Partition coefficient: n- : log POW = < 1.49



SAFETY DATA SHEET
according to regulation (EC) no 1907/2006

Matilda

Version 5 (UK)

Issue date 11/02/2009

octanol/water

(Mancozeb)

log POW = 0.66

(pH 7), (Cymoxanil)

10. STABILITY AND REACTIVITY

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

Materials to avoid : Acids

11. TOXICOLOGICAL INFORMATION

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
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.**

Further information : Irritating to respiratory system.



SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

Matilda

Version 5 (UK)

Issue date 11/02/2009

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

: 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)

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)



SAFETY DATA SHEET
according to regulation (EC) no 1907/2006

Matilda

Version 5 (UK)

Issue date 11/02/2009

13. DISPOSAL CONSIDERATIONS

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.

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

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

14. TRANSPORT INFORMATION

UN-Number : **3077**

Description of the goods : UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.*(Mancozeb)

ADR/RID

Class : 9

Packaging group : III

IMDG

Class : 9

Packaging group : III

Marine pollutant : Y

IATA-DGR

Class : 9

Packaging group : III



SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

Matilda

Version 5 (UK)

Issue date 11/02/2009

15. REGULATORY INFORMATION

Symbol(s)	: Xi N	Irritant Dangerous for the environment
R-phrase(s)	: R36/37/38 R43 R50/53	Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S35 S57	This material and its container must be disposed of in a safe way. Use appropriate container to avoid environmental contamination.
Other regulations	: The product is classified and labelled in accordance with EC directives or respective national laws.	

16. OTHER INFORMATION

Print Date : 02/11/2009

(Alterations are indicated in the left hand margin by: ||)

Full text of any R phrases referred to under heading 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.

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