

## MANZATE 75 WG

Preparation Date 22-Nov-2011

Revision date 04-Jan-2017

Revision Number: 3

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Identification of the product

Product code FBX02  
Product Description: MANZATE 75 WG  
Synonyms Mancozeb 75% WG  
Pure substance/preparation Preparation

#### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended use Fungicide  
Sector(s) of use Agricultural applications.

#### 1.3 Details of the Supplier of the Safety Data Sheet

Supplier UPL Europe Ltd  
The Centre  
Birchwood Park  
Warrington  
WA3 6YNCheshire  
UK  
Tel. : +44 (0) 1925 819999  
Fax : +44 (0) 1925 856075  
E-mail address info.uk@uniphos.com

#### 1.4 Emergency Telephone Number

Emergency telephone number **(CARECHEM 24): +44 (0) 1235 239670**  
United Kingdom NHS no. 111

## 2. Hazards Identification

### 2.1 Classification of the mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### Human Health

Skin sensitization Category 1 - H317  
Reproductive toxicity Category 2 - H361d

#### Environment

Acute aquatic toxicity Category 1 - H400

For the full text of the H-Statements mentioned in this Section, see Section 16

### 2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]



Signal Word

**WARNING**

#### Hazard Statements

H317 - May cause an allergic skin reaction  
H361d - Suspected of damaging the unborn child  
H400 - Very toxic to aquatic life

#### Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P273 - Avoid release to the environment  
P280 - Wear protective gloves and protective clothing  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
P308 + P313 - IF exposed or concerned: Get medical advice/attention  
P501 - Dispose of contents/ container to an approved waste disposal plant or collection site except for empty clean containers which can be disposed of as non-hazardous waste  
Sp1 - Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

#### EU Specific Hazard Statements

### 2.3 Other Hazards

No information available

### 3. Composition/information on Ingredients

#### 3.2. MIXTURES

Chemical name	EC No	CAS-No	Weight %	Classification (Dir.67/548)	EU - GHS Substance Classification	REACH No.
Mancozeb	-	8018-01-7	70 - 80	-	Skin Sens. 1 (H317) Repr. 2 (H361d) Aquatic Acute 1 (H400)	no data available

For the full text of the H-Statements mentioned in this Section, see Section 16

### 4. First aid measures

#### 4.1 Description of first-aid measures

<b>General advice</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
<b>Eye contact</b>	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists, consult a specialist
<b>Skin contact</b>	Wash off immediately with plenty of water If symptoms persist, call a physician
<b>Ingestion</b>	Rinse mouth with water Call a POISON CENTER or doctor if you feel unwell
<b>Inhalation</b>	Move to fresh air Call a POISON CENTER or doctor if you feel unwell

#### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

No information available

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

Treat symptomatically.

## 5. Fire-fighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Water spray  
Use water spray or fog; do not use straight streams  
Dike fire-control water for later disposal

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire

### 5.2 Special hazards arising from the substance or mixture

**Special Hazard** Thermal decomposition can lead to release of irritating gases and vapors  
Carbon disulphide  
Carbon oxides  
Nitrogen oxides (NOx)  
Hydrogen sulphide

### 5.3 Advice for Firefighters

In the event of fire, wear self contained breathing apparatus  
Use personal protection equipment  
Avoid runoff to waterways and sewers

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas  
Avoid contact with skin and eyes  
Avoid dust formation  
Use personal protective equipment  
Wear protective gloves/protective clothing and eye/face protection

### 6.2 Environmental Precautions

Prevent product from entering drains  
Do not allow material to contaminate ground water system

### 6.3 Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal

## 7. Handling and Storage

### 7.1 Precautions for Safe Handling

#### **Handling**

Avoid dust formation in confined areas  
 Remove and wash contaminated clothing before re-use  
 Avoid contact with skin and eyes  
 Do not eat, drink or smoke when using this product

#### **Hygiene Measures**

Use only outdoors or in a well-ventilated area

### 7.2 Conditions for safe storage, including any incompatibilities

Maintain air gap between stacks/pallets  
 Keep away from food, drink and animal feeding stuffs  
 Decomposes by reaction with strong acids.

### 7.3 Specific end uses

No information available.

## 8. Exposure Controls/Personal Protection

### 8.1 Control Parameters

**Exposure Limits** Apply technical measures to comply with the occupational exposure limits

Chemical name	Eu	United Kingdom	France	Spain	Germany
Mancozeb			5 mg/m <sup>3</sup>		

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

### 8.2 Exposure Controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas

#### **Personal Protective Equipment**

<b>Eye protection</b>	Safety glasses with side-shields.
<b>Skin protection</b>	Long sleeved clothing.
<b>Hand protection</b>	Nitril/Nylon EN388 4121, EN 374-2003 JKL (Thickness 0.5 mm) Permeability > 480 min.
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

**Environmental exposure controls** No information available

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Greyish-yellow	
<b>Physical state</b>	solid	
	Free flowing microgranules	
<b>Odor</b>	Woody	
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
<b>pH</b>	6.5-7.5	CIPAC MT 75 (1% aq)
<b>Melting point/freezing point</b>	No information available	Decomposes without melting.
<b>Boiling Point/Range</b>	No information available	
<b>Flash Point</b>	No information available	
<b>Flammability (solid, gas)</b>	Not highly flammable	CE A.10
<b>vapor pressure</b>	<5.6 x 10 <sup>-7</sup> hPa (25 °C)	
<b>Bulk density</b>	0.65 kg/l	Pour density / Tap density 0.62 kg/l / 0.68 kg/l
<b>Water solubility</b>	dispersible	
<b>Solubility in Other Solvents</b>	Practically insoluble	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	156 °C	CE A.16
<b>Decomposition temperature</b>	No information available	
<b>Viscosity</b>	No information available	
<b>Oxidizing properties</b>	The substance or mixture is not classified as oxidizing.	
<b>Explosive properties</b>	According to the chemical structure no explosion reaction is expected	

### 9.2 OTHER INFORMATION

**VOC Content** No information available

## 10. Stability and Reactivity

### 10.1 Reactivity

None under normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Do not store near strong acids  
Keep away from children  
Keep away from heat and sources of ignition  
Avoid dust formation

### 10.5 Incompatible Materials

Alkaline  
Strong acids  
Strong oxidizing agents  
Quaternary ammonium salts  
Sequestering agents

### 10.6 Hazardous Decomposition Products

Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Oxides of sulfur  
Carbon disulphide  
Hydrogen sulphide  
Ethylenethiourea

## 11. Toxicological Information

### 11.1 Information on Toxicological Effects

#### Acute toxicity

##### Local effects

Inhalation	.
Eye contact	.
Skin contact	.
Ingestion	.

LD50 Oral	> 5000 mg/kg (rat)
LD50 Dermal	> 2000 mg/kg (rabbit)
LC50 Inhalation	4.8 mg/L (4-hr) (rat)

#### Chronic toxicity

<b>Skin Corrosion/Irritation</b>	No skin irritation.
<b>Eye damage/irritation</b>	No eye irritation.
<b>Sensitization</b>	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
<b>Carcinogenic effects</b>	Did not show carcinogenic effects in animal experiments
<b>Mutagenic effects</b>	NOAEL = 60 mg/kg
<b>Reproductive effects</b>	NOAEL = 150 mg/kg
<b>STOT - Single Exposure</b>	No information available.
<b>STOT - Repeated Exposure</b>	No information available.



## 12. Ecological Information

### 12.1 Toxicity

EC50/72h/algae = 1.18 mg/l  
 LC50/48h/daphnia = 0.47 mg/l  
 LC50/fish/96 h = 0.2 mg/l

### 12.2 Persistence and Degradability

No information available

### 12.3 Bioaccumulative Potential

Does not bioaccumulate

Chemical name	Log Pow
Mancozeb	1.38

### 12.4 Mobility in Soil

No information available.

### 12.5 Results of PBT and vPvB Assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)

This substance is not considered to be very persistent nor very bioaccumulating (vPvB)

### 12.6 Other Adverse Effects

No information available.

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Mancozeb	Group III Chemical	

## 13. Disposal Considerations

### 13.1 Waste Treatment Methods

<b>Waste from Residues/Unused Products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken for local recycling, recovery or waste disposal.
<b>EWC waste disposal No</b>	020108 - agrochemical waste containing dangerous substances.
<b>OTHER INFORMATION</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

## 14. Transport Information

### ADR/RID

14.1 UN-No	UN3077
14.2 Proper shipping name	Environmentally hazardous substance, solid, n.o.s. ( Mancozeb )
14.3 Hazard class	9
14.4 Packing group	III
14.5 Environmental Hazard	Yes
14.6 Special Provisions	274, 335, 375, 601

### IMDG/IMO

14.1 UN-No	UN3077
14.2 Proper shipping name	Environmentally hazardous substances, solid n.o.s. ( Mancozeb )
14.3 Hazard class	9
14.4 Packing group	III
14.5 Environmental Hazard	Marine pollutant
14.6 Special Provisions	274, 335, 966, 967, 969

### IATA/ICAO

14.1 UN-No	UN3077
14.2 Proper shipping name	Environmentally hazardous substances, solid n.o.s. ( Mancozeb )
14.3 Hazard class	9
14.4 Packing group	III
14.5 Environmental Hazard	Yes
14.6 Special Provisions	A97, A158, A179, A197

## 15. Regulatory Information

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Registration n° MAPP 15052

- To avoid risks to man and the environment, comply with the instructions for use

### International Inventories

TSCA	Complies
EINECS/ ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Complies
China	-
AICS	Complies
KECL	Complies

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 AICS - Australian Inventory of Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

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**16. Other Information****Full text of R-phrases referred to under sections 2 and 3**

R43 - May cause sensitization by skin contact

R50 - Very toxic to aquatic organisms

R63 - Possible risk of harm to the unborn child

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Full text of H-Statements referred to under sections 2 and 3**

H317 - May cause an allergic skin reaction

H361d - Suspected of damaging the unborn child

H400 - Very toxic to aquatic life

**Revision date** 04-Jan-2017**Revision note** Sections updated: 1.4 Emergency Telephone Number**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****Disclaimer**

The information contained is based on our knowledge of the product at the date of publishing.

It applies to the PRODUCT AS SUCH. In case of formulation or mixture, make sure that a new danger will not appear.

Users are advised of possible additional hazards when the product is used in applications for which it was not intended.

This sheet shall only be used and duplicated for prevention and Safety purposes.

For rates and use recommendations, refer to the information displayed on the packaging.

It is the responsibility of the handlers of the product to pass on this safety data sheet to any subsequent persons who will come into contact with the product.

**End of Safety Data Sheet**