



MANZATE 75 WG

Preparation Date 22-Nov-2011

Revision date 02-Apr-2014

Revision Number: 2

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 Manzate 75 DF, Penncozeb 75 WG, Tridex DG, Trimanoc DG, Vondozeb 75 WG, Vondozeb GD

Pure substance/preparation Preparation

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

Recommended use Fungicide

Sector 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 EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)	Xn - Harmful N - Dangerous for the environment
R-code(s)	Repr. cat. 3;R63-Xn;R43 - N;R50/53

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

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	Acute - 1 - H400
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2.2 Label elements

Labelling according to EU Directives 67/548/EEC or 1999/45/EC



Symbol(s)

Xn - Harmful
N - Dangerous for the environment

R -phrase(s)

R43 - May cause sensitization by skin contact
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

S -phrase(s)

S 2 - Keep out of the reach of children
S13 - Keep away from food, drink and animal feedingstuffs
S22 - Do not breathe dust
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
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets

Labelling according 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/ eye protection/ face protection

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P201 - Obtain special instructions before use

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P363 - Wash contaminated clothing before reuse

P391 - Collect spillage

P501 - Dispose of contents/ container to an approved waste disposal plant

EU Specific Hazard Statements

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

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	Repr. Cat. 3;R63 R43 N;R50	Skin Sens. 1 (H317) Repr. 2 (H361d) Aquatic Acute 1 (H400)	no data available

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

4. First aid measures

4.1 Description of first-aid measures

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

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

No information available.

4.3 Indication of 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
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5.3 Advice for Firefighters

In the event of fire, wear self contained breathing apparatus
Use personal protective 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 the skin and the eyes
Avoid dust formation
Use personal protective equipment
Wear protective gloves/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 materials 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

Do not eat, drink or smoke when using this product

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 ³		

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

Eye protection	Safety glasses with side-shields.
Skin protection	Long sleeved clothing.
Hand protection	Protective gloves.
Respiratory protection	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

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

Skin Corrosion/Irritation	No skin irritation.
Eye damage/irritation	No eye irritation.
sensitization	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Carcinogenic effects	Did not show carcinogenic effects in animal experiments
Mutagenic effects	NOAEL = 60 mg/kg
Reproductive effects	NOAEL = 150 mg/kg
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	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

Waste from Residues / Unused Products	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken for local recycling, recovery or waste disposal.
EWC waste disposal No	020108 - agrochemical waste containing dangerous substances.
OTHER INFORMATION	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, 601
Tunnel restriction code	(E)

IMDG/IMO

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	
14.6 Special Provisions	274, 335

IATA/ICAO

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	A158, A179, A97

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.

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 02-Apr-2014**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