

Maneb 75 WG

Preparation Date 11-Jul-2014

Revision date 08-Dec-2016

Revision Number: 3

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

1.1 Identification of the product

Product Description: Maneb 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 Uniphos House, Madhu Park,
Khar (W), Mumbai, India
Tel: +91-(022)- 2646-8000

E-mail address info.in@uniphos.com

1.4 Emergency Telephone Number

Emergency telephone number

2. Hazards Identification

2.1 Classification of the mixture

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

Human Health

Acute Inhalation Toxicity - Dusts and Mists Category 4 - (H332)

Serious Eye Damage/Irritation Category 2 - (H319)

Skin sensitization Category 1 - (H317)

Reproductive toxicity Category 2 - (361d)

Environment

Acute aquatic toxicity Category 1 - (H400)

Chronic aquatic toxicity Category 1 - (H410)

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

2.2 Label elements

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



Signal Word

WARNING

Hazard Statements

H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H332 - Harmful if inhaled
 H361d - Suspected of damaging the unborn child
 H410 - Very toxic to aquatic life with long lasting effects

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

P273 - Avoid release to the environment
 P280 - Wear protective gloves/eye protection/face protection
 P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P308 + P313 - IF exposed or concerned: Get medical advice/attention
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
 P337 + P313 - If eye irritation persists: Get medical advice/attention
 P391 - Collect spillage
 P501 - Dispose of contents/ container to an approved landfill

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.
Maneb	235-654-8	12427-38-2	70 - 80	-	Eye Irrit. 2 (H319) Skin Sens. 1	no data available

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					(H317) Repr. 2 (H361d) Acute Tox. 4 (H332) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	
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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 continuously 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 if you feel unwell
Inhalation	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
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

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Special Hazard

Thermal decomposition giving flammable and toxic products.
Carbon disulphide
Carbon oxides
Oxides of Nitrogen (NO_x)
Hydrogen sulphide

5.3 Advice for Firefighters

In the event of fire, wear self contained breathing apparatus

Use personal protection equipment

This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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

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 or vacuum spilled material into a labeled waste container. Disposal by a licensed waste disposal contractor.

Dike far ahead of spill to collect runoff water

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

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

Do not store near strong acids

Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur.

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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	Austria	Switzerland	Poland	Norway	Ireland
Methenamine			TWA: 4 mg/m ³	TWA: 3 mg/m ³ STEL: 6 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

Local authorities should be advised if significant spillages cannot be contained

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9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	olive-brown	
Physical state	solid , Free flowing microgranules	
Odor	Woody	
Property	VALUES	Remarks/ Method
pH	5.5-6.5	CIPAC MT 75 (1% aq)
Melting point/freezing point	No information available	Decomposes without melting.
Boiling Point/Range	No information available	
Flash Point		
Flammability (solid, gas) vapor pressure	Not highly flammable <1.1 x 10 ⁻⁷ hPa (25 °C)	CE A.10
Bulk density	0.66 kg/l	Pour density / Tap density 0.62 kg/l / 0.69 kg/l
Water solubility	dispersible	
Solubility in Other Solvents	Practically insoluble	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	159 °C	CE A.16
Decomposition temperature	No information available	
Viscosity		
Oxidizing properties	Non oxidizing (according to A17 test)	
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
Avoid creating dusty conditions
Do not expose to extreme temperatures.



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10.5 Incompatible Materials

Alkaline
Strong acids
Strong oxidizing agents
Quaternary ammonium salts
Sequestering agents

10.6 Hazardous Decomposition Products

Carbon disulfide
Ethylenethiourea
Nitrogen oxides (NO_x)
Carbon oxides
Hydrogen sulfide
Oxides of sulfur

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute toxicity

Local effects

Inhalation	.
Eye contact	.
Skin contact	.
Ingestion	.

LD50 Oral	LD50 Oral > 5000 mg/kg (rat)
LD50 Dermal	LD50 Dermal > 2000 mg/kg (rabbit)
LC50 Inhalation	LC50 Inhalation 5.0 mg/L mg/l (rat) (4-hr)

Chronic toxicity

Skin Corrosion/Irritation	No skin irritation.
Eye damage/irritation	MAY CAUSE EYE IRRITATION.
Sensitization	Repeated or prolonged contact may cause allergic reactions in very susceptible persons.
Carcinogenic effects	Did not show carcinogenic effects in animal experiments
Mutagenic effects	NOAELsystemic = 5.6 mg/kg bw (75 ppm)
Reproductive effects	NOAELreproductive = 20 mg/kg bw/d (300 ppm)
STOT - Single Exposure	No information available.

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STOT - Repeated Exposure No information available.

12. Ecological Information

12.1 Toxicity

EC50/72h/algae = < 1 mg/l
LC50/48h/daphnia = 0.31 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
Maneb	1.75

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
Maneb	Group I Chemical	High Exposure Concern

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.



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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. (Maneb)
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. (Maneb)
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. (Maneb)
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

International Inventories

Maneb : CAS 12427-38-2

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

- : Not listed/Determines

Legend

USINV - Total TSCA/FIFRA Inventory

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List



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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

16. Other Information

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End of Safety Data Sheet