



Mancozeb 600g/kg+Metalaxyl 100g/kg WP

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Revision date: 08-05-2015

Version: 2.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : Mancozeb 600g/kg+Metalaxyl 100g/kg WP
Product code : FF-040

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/preparation : Fungicide used by professionals for agriculture

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Rotam Agrochemical Company Ltd
26/F, E-Trade Plaza, 24 Lee Chung Street, Chai Wan, Hong Kong.
Tel.: 852-2896 0662 Fax: 852-2558 6577
msds@rotam.com

1.4. Emergency telephone number

Emergency number : (86) 532 8388 9090

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Repr. 2 H361

Aquatic Acute 1 H400

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08



GHS07



GHS09

Signal word (CLP) :

Warning

Hazardous ingredients :

metalaxyl (ISO), methyl-N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-DL-alaninate, mancozeb (ISO), manganese ethylenebis(dithiocarbamate) (polymeric) complex with zinc salt

Hazard statements (CLP) :

H319 - Causes serious eye irritation.
H361 - Suspected of damaging fertility or the unborn child
H400 - Very toxic to aquatic life

Precautionary statements (CLP) :

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P264 - Wash skin thoroughly after handling.
P273 - Avoid release to the environment
P280 - Wear protective gloves/eye protection/face protection.
P281 - Use personal protective equipment as required
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
P337+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P391 - Collect spillage
P405 - Store locked up
P501 - Dispose of contents/container to local regulation

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
mancozeb (ISO), manganese ethylenebis(dithiocarbamate) (polymeric) complex with zinc salt	(CAS No.) 8018-01-7 (EC index no) 006-076-00-1	60	Repr.Cat.3; R63 Xi; R43 N; R50
metalaxyl (ISO), methyl-N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-DL-alaninate	(CAS No.) 57837-19-1 (EC no) 260-979-7 (EC index no) 607-425-00-6	10	Xn; R22 Xi; R43 R52/53
Name	Product identifier	Specific concentration limits	
mancozeb (ISO), manganese ethylenebis(dithiocarbamate) (polymeric) complex with zinc salt	(CAS No.) 8018-01-7 (EC index no) 006-076-00-1	(2.5 =< C) N;R50	
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
mancozeb (ISO), manganese ethylenebis(dithiocarbamate) (polymeric) complex with zinc salt	(CAS No.) 8018-01-7 (EC index no) 006-076-00-1	60	Repr. 2, H361d Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10)
metalaxyl (ISO), methyl-N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-DL-alaninate	(CAS No.) 57837-19-1 (EC no) 260-979-7 (EC index no) 607-425-00-6	10	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Chronic 3, H412

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : When symptoms occur: Call a physician or poison control center immediately.
- First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area.
- First-aid measures after skin contact : When symptoms occur: rinse immediately with plenty of water.
- First-aid measures after eye contact : Rinse eyes with plenty of water.
- First-aid measures after ingestion : Rinse mouth and then drink plenty of water. DO NOT induce vomiting. Seek medical advice.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).
- Unsuitable extinguishing media : high volume water jet.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, nitrogen oxides (NO_x).
- Explosion hazard : Product is not explosive.
- Reactivity : The product is stable at normal handling- and storage conditions.

5.3. Advice for firefighters

- Precautionary measures fire : Wear self-contained breathing apparatus and protective suit (see item 8).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Wear appropriate personal protective equipment (PPE) : coverall, boots.

6.1.1. For non-emergency personnel

- Protective equipment : Wear personal protective equipment.
- Emergency procedures : Avoid contact with the releasing.

6.1.2. For emergency responders

- Protective equipment : Wear appropriate personal protective equipment (PPE) : coverall, boots.

6.2. Environmental precautions

Do not allow material to contaminate water systems.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Large spills: scoop solid spill into closing containers. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do NOT get in eyes, on skin or on clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Pale yellow powder
Odour	: No data available
Odour threshold	: No data available
pH	: 6.0~9.0
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not highly flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Non explosive
Oxidising properties	: Not an oxidizer
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling- and storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

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10.4. Conditions to avoid

All heat sources.

10.5. Incompatible materials

Strong acids, strong bases and oxidation agents.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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LD50 oral rat	> 3160 mg/kg for male rats, >5000mg/kg for female rats.
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 4.83 mg/l/4h

Skin corrosion/irritation	: Not irritant to skin
Serious eye damage/irritation	: Irritant to eyes
Respiratory or skin sensitisation	: Not classified.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

metalaxyl	
LC50 fish 1	≥ 100 mg/l (rainbow trout)
EC50 Daphnia 1	≥ 28 mg/l
ErC50 (algae)	33 mg/l
mancozeb	
LC50 fish 1	12.25 mg/l
EC50 Daphnia 1	3.8 mg/l
ErC50 (algae)	0.044 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

mancozeb (ISO), manganese ethylenebis(dithiocarbamate) (polymeric) complex with zinc salt (8018-01-7)	
Log Pow	0.26

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / RID / ADN / IMDG / ICAO / IATA

14.1. UN number

UN-No. : 3077

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14.2. UN proper shipping name

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Metalaxy/Mancozeb)
Transport document description : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.(Metalaxy/Mancozeb), 9, III, (E)

14.3. Transport hazard class(es)

Class (UN) : 9
Hazard labels (UN) : 9



14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90
Classification code (UN) : M7
Orange plates :



Special provision (ADR) : 274, 335, 601
Transport category (ADR) : 3
Tunnel restriction code : E
Limited quantities (ADR) : 5kg
Excepted quantities (ADR) : E1
EAC code : 2Z

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1

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Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Repr. 2	Reproductive toxicity Category 2
Repr. 2	Reproductive toxicity Category 2
Skin Sens. 1	Skin sensitisation Category 1
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H361	Suspected of damaging fertility or the unborn child
H361d	Suspected of damaging the unborn child
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects
R22	Harmful if swallowed.
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

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