

## FUBOL GOLD WG

Version 19 - This version replaces all previous versions.

Revision Date 09.01.2015

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

**Product name** : FUBOL GOLD WG

**Design code** : A9651D

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

**Use** : Fungicide

#### 1.1 Details of the supplier of the safety data sheet

**Company** Syngenta UK Limited  
CPC4, Capital Park  
Fulbourn, Cambridge  
CB21 5XE

**1.3 Telephone** : (01223) 883400

**Telefax** : (01223) 882195

**Website** : [www.syngenta.co.uk](http://www.syngenta.co.uk)

#### 1.4 Emergency telephone number

: +44 (0) 1484 538444

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Reproductive toxicity	Category 2	H361d
Skin sensitization	Sub-category 1B	H317
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.

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### 2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

#### Hazard pictograms



Signal Word : Warning

Hazard Statements :H317 May cause an allergic skin reaction.  
 :H361d Suspected of damaging the unborn child  
 :H410 Very toxic to aquatic life with long lasting effects

Precautions Statements :P102 Keep out of reach of children  
 :P201 Obtain special instructions before use.  
 :P280 Wear protective gloves/protective clothing  
 :P302/352 IF ON SKIN: Wash with plenty of soap and water  
 :P308/313 IF exposed or concerned: Get medical advice/ attention.  
 :P391 Collect spillage  
 :P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed for as non-hazardous waste.

Supplemental Information :EUH401 To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label:

- mancozeb

### 2.1 Other hazards

May form flammable dust-air mixture.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
mancozeb	8018-01-7	N, Xn R43 R50 R63	Repr.2; H361d Skin Sens.1; H317 Aquatic Acute1; H400	64 % w/w
metalaxyl-M	70630-17-0	Xn R22 R41	Acute Tox.4; H302 Eye Dam.1; H318	4 % w/w

Substances for which there are Community workplace exposure limits.

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

## SECTION 4. FIRST AID MEASURES

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### 4.1 Description of first aid measures

- General Advice : Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment.
- Inhalation : Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.
- Skin Contact : Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
- Eye Contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

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

**Symptoms** : No information available.

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

**Medical advice** : There is no specific antidote available.  
Treat symptomatically.

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## SECTION 5. FIREFIGHTING MEASURES

- 5.1 Extinguishing media**  
Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Extinguishing media - large fires  
Use alcohol-resistant foam or water spray.  
Do not use a solid water stream as it may scatter and spread fire.
- 5.2 Special hazards arising from the substance or mixture**  
As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.
- 5.3 Advice for fire-fighters:**  
Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Refer to protective measures listed in sections 7 and 8. Avoid dust formation.
- 6.2 Environmental precautions:**  
Do not flush into surface water or sanitary sewer system.

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

Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13). Do not create a powder cloud by using a brush or compressed air. Clean contaminated surface thoroughly. If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.  
Refer to disposal considerations listed in section 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Potential for spontaneous combustion. To avoid thermal decomposition, do not overheat. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. For personal protection see section 8.

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

This material can be thermally unstable at elevated temperatures. The material is thermally stable at normal ambient temperatures as packaged. Store the material away from sources of heat such as steam pipes, radiators or heaters. Maintain an air gap between individual packages. Do not repack into larger volume packages. Do not bulk up in silos, storage bins or hoppers without considering the potential product degradation/decomposition problem. Further advice is available from Syngenta. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Storage temperature < 35 °C.

### 7.3 Specific end use(s)

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
mancozeb	1 mg/m <sup>3</sup>	8 h TWA	SUPPLIER
metalaxyl-M	10 mg/m <sup>3</sup>	8 h TWA	SYNGENTA

### 8.2 Exposure controls

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

Engineering Measures : Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If

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	airborne dust is generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.
Protective measures	: The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.
Respiratory protection	: No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.
Hand protection	: Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be changed when breakthrough is suspected. Suitable material: nitrile rubber.
Eye Protection	: Eye protection is not usually required. Follow any site specific eye protection policies.
Skin and body protection	: Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.). Wear as appropriate: dust impervious protective suit.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

<b>Physical State</b>	: Solid
<b>Form</b>	: Granules
<b>Colour</b>	: Light yellow to light brown
<b>Odour</b>	: Weak
<b>Odour Threshold</b>	: No data available
<b>pH</b>	: 5.9 at 1 % w/v (aqueous suspension)
<b>Melting point/range</b>	: No data available
<b>Boiling point/boiling range</b>	: No data available
<b>Flash point</b>	: No data available
<b>Evaporation rate</b>	: No data available
<b>Flammability (solid, gas)</b>	: Not highly flammable
<b>Lower explosion limit</b>	: No data available
<b>Upper explosion limit</b>	: No data available
<b>Vapour pressure</b>	: No data available
<b>Relative vapour density</b>	: No data available
<b>Density</b>	: No data available
<b>Solubility in other solvents</b>	: No data available
<b>Partition Coefficient n-octanol/water</b>	: No data available
<b>Autoignition temperature</b>	: 152 °C
<b>Thermal decomposition</b>	: No data available
<b>Viscosity, dynamic</b>	: No data available
<b>Viscosity, kinematic</b>	: No data available

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**Explosive properties** : Not explosive  
**Oxidizing properties** : Not oxidising

### 9.2 Other information

**Minimum ignition temperature** : 340 °C  
**Dust explosion class** : Forms flammable dust clouds  
**Minimum ignition energy** : >1 J  
**Bulk density** : 0.45 – 0.65 g/cm<sup>3</sup>  
**Miscibility** : miscible  
**Surface tension** : 57.8 mN/m at 20 °C  
**Burning number** : 1 at 20 °C  
 5 at 100 °C

## SECTION 10. STABILITY AND REACTIVITY

**10.1 Reactivity** : No information available  
**10.2 Chemical Stability** : No information available  
**10.3 Possibility of hazardous reactions** : Hazardous polymerisation does not occur. This material may degrade, decompose exothermically, and may even catch fire, when large quantities are exposed to elevated temperatures.  
**10.4 Conditions to avoid** : No information available  
**10.5 Incompatible materials** : No information available  
**10.6 Hazardous decomposition products** : Combustion or thermal decomposition will evolve toxic and irritant vapours.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute oral toxicity** : Median lethal dose male and female rat, > 5,000 mg/kg  
**Acute inhalational toxicity** : Median lethal concentration male and female rat, > 5.13 mg/l 4 h  
**Acute dermal toxicity** : LD50 male and female rat, > 5,000 mg/kg  
**Skin corrosion/irritation** : Rabbit: Non-irritating  
**Serious eye damage/eye irritation** : Rabbit: mildly irritating  
**Respiratory or skin sensitisation** : Guinea pig: a skin sensitiser in animal tests  
**Germ cell mutagenicity** :  
     **mancozeb** : Did not show mutagenic effects in animal experiments.  
     **metalaxyl-m** : Did not show mutagenic effects in animal experiments.  
**Carcinogenicity** :  
     **mancozeb** : Did not show carcinogenic effects in animal experiments.  
     **metalaxyl-m** : Did not show carcinogenic effects in animal experiments.  
**Teratogenicity** :  
     **metalaxyl-m** : Did not show teratogenic effects in animal experiments.  
**Reproductive toxicity** :  
     **mancozeb** : Suspected of damaging the unborn child.  
     **metalaxyl-m** : Did not show reproductive toxicity effects in animal experiments.  
**STOT – single exposure** : May cause respiratory irritation  
**STOT – repeated exposure** :  
     **mancozeb** : No adverse effect has been observed in chronic toxicity tests.  
     **metalaxyl-m** : No adverse effect has been observed in chronic toxicity tests.

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### SECTION 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

<b>Toxicity to fish</b>	:	LC50 <i>Cyprinus carpio</i> (Carp), 23 mg/l, 96 h
<b>Toxicity to aquatic invertebrates</b>	:	EC50 <i>Daphnia magna</i> Straus, 0.8 mg/l, 48 h
<b>Toxicity to aquatic plants</b>	:	ErC50 <i>Pseudokirchneriella subcapitata</i> (green algae), 0.219 mg/l, 72 h NOErC <i>Pseudokirchneriella subcapitata</i> (green algae), 0.031 mg/l, 72 h

#### 12.2 Persistence and degradability

Biodegradability		
	Metalaxyl-m	: Not readily biodegradable.
Stability in water		:
	mancozeb	: Degradation half life: 5.8 - 55 h. Not persistent in water
	metalaxyl-M	: Degradation half life: 22.4 - 47.5 d. Not persistent in water
Stability in soil		:
	mancozeb	: Degradation half life: 6 - 15 h. Not persistent in soil
	metalaxyl-M	: Degradation half life: < 50 d. Not persistent in soil

#### 12.3 Bioaccumulative potential

Mancozeb	:	Does not bioaccumulate.
Metalaxyl-m	:	Low bioaccumulation potential

#### 12.4 Mobility in soil

Mancozeb	:	Low mobility in soil.
Metalaxyl-M	:	Has a range from very low to very high mobility in soil depending on soil type.

#### 12.5 Results of PBT and vPvB assessment

Mancozeb, metalaxyl-M	:	These substances are not considered to be persistent, bioaccumulating nor toxic (PBT). These substances are not considered to be very persistent nor very bioaccumulating (vPvB).
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#### 12.6 Other adverse effects

<b>Other information</b>	:	Classification of the product is based on the summation of the concentrations of classified components.
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### SECTION 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Product	:	Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging	:	Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

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### SECTION 14. TRANSPORT INFORMATION

#### Land transport (ADR/RID)

14.1	UN Number	:	UN 3077
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MANCOZEB)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Labels		:	9
14.5	Environmental hazards	:	Environmentally hazardous

#### Sea transport (IMDG)

14.1	UN Number	:	UN 3077
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MANCOZEB)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Labels		:	9
14.5	Environmental hazards	:	Marine pollutant

#### Air transport (IATA-DGR)

14.1	UN Number	:	UN 3077
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MANCOZEB)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Labels		:	9
14.6	Special precautions for user	:	none

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

Not applicable



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### SECTION 15. REGULATORY INFORMATION

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

GHS-Labeling

Hazard pictograms		
		
Signal Word	:	Warning
Hazard Statements	:	:H317 May cause an allergic skin reaction. :H361d Suspected of damaging the unborn child :H410 Very toxic to aquatic life with long lasting effects
Precautions Statements	:	:P102 Keep out of reach of children :P201 Obtain special instructions before use. :P280 Wear protective gloves/protective clothing :P302/352 IF ON SKIN: Wash with plenty of soap and water :P308/313 IF exposed or concerned: Get medical advice/ attention. :P391 Collect spillage :P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed for as non-hazardous waste.
Supplemental Information	:	:EUH401 To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label:

- Mancozeb

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

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### SECTION 16. OTHER INFORMATION

#### Further information

Approval number, MAPP 14605.

Use plant protection products safely. Always read the label and product information before use.

Based upon SDS release dated 25/11/2013, version 18 with local amendment.

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

H302	Harmful if swallowed
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage
H361d	Suspected of damaging the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

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.

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