

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY OR UNDERTAKING

### IDENTIFICATION OF THE SUBSTANCE OR PREPARATION

Tradenname **FUBOL GOLD WG**  
 Design Code **A-9651D/E**  
 AGI Code **241238/26619/34444**

### COMPANY IDENTIFICATION

Company Syngenta Crop Protection UK Ltd  
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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### HAZARDOUS COMPONENTS

CAS-NO.	EC-NO.	CHEMICAL NAME	CONCENTRATION (% W/W)	HAZARD SYMBOLS	RISK PHRASES (R)
70630-17-0	–	metalaxyl-M	4	Xn	22, 41
8018-01-7	–	mancozeb	64	Xi	37, 43

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

## 3. HAZARDS IDENTIFICATION

May cause sensitisation by skin contact. Possible risk of harm to the unborn child. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Irritating to the respiratory system. May form flammable dust-air mixture.

## 4. 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:** Remove 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.

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

## F U N G I C I D E

## 5. FIRE FIGHTING MEASURES

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**Suitable extinguishing media – small fires:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Suitable extinguishing media – large fires:** Alcohol-resistant foam or water spray.

**Extinguishing media which must not be used for safety reasons:** Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards during fire fighting:** 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.

**Special protective equipment for fire fighters:** In the event of fire, wear self-contained breathing apparatus.

**Further information:** Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

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**Personal precautions:** Refer to protective measures listed in sections 7 and 8. Avoid dust formation.

**Environmental precautions:** Do not flush into surface water or sanitary sewer system.

**Methods for 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.

**Additional advice:** If the product contaminates rivers and lakes or drains inform respective authorities.

## 7. HANDLING AND STORAGE

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### HANDLING

**Advice on 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.

### STORAGE

**Requirements for storage areas and containers:** This material can be thermally unstable at elevated temperatures. The material is thermally stable at normal ambient temperatures. It is good practice to store the material away from sources of heat such as steam pipes, radiators or heaters. Keep tightly closed in a dry and cool place. Keep out of the reach of children. Do not bulk-up in silos, storage bins or hoppers without considering the potential product degradation/decomposition problem. Further advice is available from Syngenta.

**Storage temperature:** <35 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

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

### 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 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.

### PERSONAL PROTECTIVE EQUIPMENT

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment:

**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 break-through is suspected. Suitable material: nitrile rubber.

**Eye protection:** Eye protection is not usually required. Follow any site specific eye protection policies. Eye/face protection should be certified to EN 166.

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granules.
Colour:	Light yellow to light brown.
Odour:	Weak.
pH Value:	5–9 (1%; w/v)
Flammability (solid, gas):	Not highly flammable.
Dust Explosion Class:	Forms flammable dust clouds.
Minimum Ignition Energy:	0.001–2 J.
Oxidising Properties:	Not oxidising.
Explosive Properties:	Not explosive.
Bulk Density:	0.45–0.65 g/cm <sup>3</sup>
Water Solubility:	Miscible.
Surface Tension:	57.8 mN/m (30.0 g/l; Dispersion in distilled water; 20°C)

## F U N G I C I D E

## 10. STABILITY AND REACTIVITY

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**Hazardous decomposition products:** Combustion or thermal decomposition will evolve toxic and irritant vapours.

**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.

## 11. TOXICOLOGICAL INFORMATION

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**Acute Oral Toxicity LD<sub>50</sub>:** >5000 mg/kg (rat)

**Acute Dermal Toxicity LD<sub>50</sub>:** >5000 mg/kg (rat)

**Acute Inhalation Toxicity LC<sub>50</sub>:** >5.13 mg/l, 4h

**Acute Skin Irritation:** Non irritating (rabbit)

**Acute Eye Irritation:** Mildly irritating (rabbit)

**Skin Sensitisation:** Sensitising (guinea pig)

**LONG-TERM TOXICITY:** Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

## 12. ECOLOGICAL INFORMATION

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### ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

**Bioaccumulation:** Metalaxyl-M has low bioaccumulation potential.

**Stability in water:** Metalaxyl-M is not persistent in water. Mancozeb is not persistent in water.

**Stability in soil:** Metalaxyl-M has moderate persistence in soil. Mancozeb is not persistent in soil.

**Mobility:** Metalaxyl-M has a range from low to very high mobility in soil depending on soil type. Mancozeb has low mobility in soil.

**Toxicity to Fish LC<sub>50</sub>:** 23 mg/l *Cyprinus carpio* (carp), 96h

**Toxicity to Algae ErC<sub>50</sub>:** 0.219 mg/l *Pseudokirchneriella subcapitata* (green algae), 72h

**Toxicity to Algae EbC<sub>50</sub>:** 0.0929 mg/l *Pseudokirchneriella subcapitata* (green algae), 72h

**Toxicity to Aquatic Invertebrates EC<sub>50</sub>:** 0.8mg/l *Daphnia magna* Straus, 48 h

## 13. DISPOSAL CONSIDERATIONS

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**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.

## 14. TRANSPORT INFORMATION

<b>RAIL/ROAD/SEA/AIR (RID/ADR/IMDG/IATA)</b>	Class	UN No.	Packaging Group
	9	3077	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (MANCOZEB)		
Marine pollutant:	Yes		

## 15. REGULATORY INFORMATION

<b>Classifications/ Hazard symbols</b>	<b>N Xi</b>	<b>DANGEROUS FOR THE ENVIRONMENT HARMFUL</b>
<b>Risk phrases (R)</b>	37	Irritating to the respiratory system.
	43	May cause sensitisation by skin contact.
	50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	63	Possible risk of harm to the unborn child.
<b>Safety phrases (S)</b>	2	Keep out of the reach of children.
	13	Keep away from food, drink and animal feeding stuffs.
	20/21	When using do not eat, drink or smoke.
	35	This material and its container must be disposed of in a safe way.
	36/37	Wear suitable protective clothing and gloves.
	57	Use appropriate containment to avoid environmental contamination.
<b>Special label</b>	To avoid risks to man and the environment, comply with the instructions for use.	

## 16. OTHER INFORMATION

Always read the label. Use pesticides safely.

Product approval number: MAPP 14605.

Original based upon SDS release date 07/08/2006, version 13.

### Text of R phrases mentioned in Section 2:

**R22** Harmful if swallowed.

**R37** Irritating to respiratory system.

**R41** Risk of serious damage to eyes.

**R43** May cause sensitisation by skin contact.

**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.**