

## AMPHORE PLUS

Version 6 - This version replaces all previous versions.

Revision Date 16.12.2013

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

#### 1.1 Product identifier

**Product name** : AMPHORE PLUS

**Design code** : A14576A

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

**Use** : Fungicide

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

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

**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

Chronic aquatic toxicity    Category 1    H410

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### 2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms



Signal Word :Warning

Hazard Statements :H410 Very toxic to aquatic life with long lasting effects.

Precautions Statements :P273 Avoid release to environment  
 :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 of as non-hazardous waste.

Supplemental Information :EUH401 To avoid risks to human health and the environment comply with the instructions for use.  
 Contains 1,2-benzisothiazol-3-one. May produce an allergic reaction.

Hazardous components which must be listed on the label:

### 2.3 Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS No. EC No. Registration Number	Classification (REGULATION (EC) No. 1272/2008)	Concentration
mandipropamid	374726-62-2	Aquatic Acute1; H400 Aquatic Chronic1; H410	21.9 % W/W
difenoconazole	119446-68-3	Acute Tox.4; H302 Aquatic Acute1; H400 Aquatic Chronic1; H410	21.9 % 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.

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### SECTION 4. FIRST AID MEASURES

#### 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.
- 6.2 Environmental precautions:**  
Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
- 6.3 Methods and materials for containment and cleaning up**  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). 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**  
No special protective measures against fire required. 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**  
No special storage conditions required. 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 feedingstuffs.
- 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
mandipropamid	10 mg/m <sup>3</sup>	8 h TWA	SYNGENTA
difenoconazole	8 mg/m <sup>3</sup>	8 h TWA	SYNGENTA

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

#### 8.2 Exposure controls

- 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 mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional

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	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 are not usually required. Select gloves based on the physical job requirements.
Eye Protection	: Eye protection is not usually required. Follow any site specific eye protection policies.
Skin and body protection	: No special protective equipment required. Select skin and body protection based on the physical job requirements.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Physical State</b>	: Liquid
<b>Form</b>	: Suspension
<b>Colour</b>	: Off-white to brownish
<b>Odour</b>	: Sweetish
<b>Odour Threshold</b>	: No data available
<b>pH</b>	: 5 - 9 at 1 % w/v
<b>Melting point/range</b>	: No data available
<b>Boiling point/boiling range</b>	: No data available
<b>Flash point</b>	: > 101 °C at 100.4 kPa Pensky-Martens c.c.
<b>Evaporation rate</b>	: No data available
<b>Flammability (solid, gas)</b>	: No data available
<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>	: 1.145 g/cm <sup>3</sup> at 20 °C
<b>Solubility in other solvents</b>	: No data available
<b>Partition Coefficient</b>	: No data available
<b>n-octanol/water</b>	
<b>Autoignition temperature</b>	: 460 °C
<b>Thermal decomposition</b>	: No data available
<b>Viscosity, dynamic</b>	: 61.4 - 339 mPa.s at 40 °C 91.0 - 427 mPa.s at 20 °C
<b>Viscosity, kinematic</b>	: No data available
<b>Explosive properties</b>	: Not explosive
<b>Oxidizing properties</b>	: Not oxidising

#### 9.2 Other information

<b>Surface tension</b>	: 27.9 mN/m at 20 °C
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### SECTION 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	: No information available
<b>10.2 Chemical Stability</b>	: No information available
<b>10.3 Possibility of hazardous reactions</b>	: None known. Hazardous polymerisation does not occur.
<b>10.4 Conditions to avoid</b>	: No information available
<b>10.5 Incompatible materials</b>	: No information available
<b>10.6 Hazardous decomposition products</b>	: Combustion or thermal decomposition will evolve toxic and irritant vapours.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

<b>Acute oral toxicity</b>	: LD50 female rat, 2,958 mg/kg
<b>Acute inhalational toxicity</b>	: LC50 rat, > 5.12 mg/l, 4 h
<b>Acute dermal toxicity</b>	: LD50 male and female rat, > 5,000 mg/kg
<b>Skin corrosion/irritation</b>	: rabbit: Mildly irritating
<b>Serious eye damage/eye irritation</b>	: rabbit: Non-irritating
<b>Respiratory or skin sensitisation</b>	: Buehler Test guinea pig: Not a skin sensitizer in animal tests
<b>Germ cell mutagenicity</b>	:
<b>mandipropamid</b>	Did not show mutagenic effects in animal experiments.
<b>difenoconazole</b>	Did not show mutagenic effects in animal experiments.
<b>Carcinogenicity</b>	:
<b>mandipropamid</b>	Did not show carcinogenic effects in animal experiments.
<b>difenoconazole</b>	Did not show carcinogenic effects in animal experiments.
<b>Teratogenicity</b>	:
<b>mandipropamid</b>	Did not show teratogenic effects in animal experiments.
<b>Reproductive toxicity</b>	:
<b>mandipropamid</b>	Did not show reproductive toxicity effects in animal experiments.
<b>difenoconazole</b>	Did not show reproductive toxicity effects in animal experiments.
<b>STOT – repeated exposure</b>	:
<b>mandipropamid</b>	No adverse effect has been observed in chronic toxicity tests.
<b>difenoconazole</b>	No adverse effect has been observed in chronic toxicity tests.

### SECTION 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

<b>Toxicity to fish</b>	: LC50 <i>Oncorhynchus mykiss</i> (rainbow trout), 3.1 mg/l, 96h
<b>Toxicity to aquatic invertebrates</b>	: EC50 <i>Daphnia magna</i> (Water flea), 2.9 mg/l, 48h
<b>Toxicity to aquatic plants</b>	: EbC50 <i>Pseudokirchneriella subcapitata</i> (green algae), 5.3 mg/l, 96 h ErC50 <i>Pseudokirchneriella subcapitata</i> (green algae), 12.0 mg/l, 96 h

#### 12.2 Persistence and degradability

<b>Biodegradability</b>	:
<b>mandipropamid</b>	Not readily biodegradable.
<b>Stability in water</b>	:

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mandipropamid	Degradation half life: 4.5 – 26 d. Not persistent in water
difenoconazole	Degradation half life: 1 d. Not persistent in water.
Stability in soil :	
mandipropamid	Degradation half life: 26 - 178 d. Not persistent in soil
difenoconazole	Degradation half life: 149 – 187 d. Not persistent in soil

### 12.3 Bioaccumulative potential

Mandipropamid	: low potential for bioaccumulation.
Difenoconazole	: high potential to bioaccumulate

### 12.4 Mobility in soil

Mandipropamid	: Low mobility in soil.
Difenoconazole	: Low mobility in soil.

### 12.5 Results of PBT and vPvB assessment

Mandipropamid, difenoconazole	: 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

Classification of the product is based on the summation of the concentrations of classified components

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

<b>Product</b>	: 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.
<b>Contaminated packaging</b>	: Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

### Land transport (ADR/RID)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIFENOCONAZOLE AND MANDIPROPAMID)
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 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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			N.O.S. (DIFENOCONAZOLE AND MANDIPROPAMID)
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 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIFENOCONAZOLE AND MANDIPROPAMID)
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

## 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	:	H410	Very toxic to aquatic life with long lasting effects.
Precautions Statements	:	P273	Avoid release to environment
	:	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 of as non-hazardous waste.
Supplemental Information	:	EUH401	To avoid risks to human health and the environment comply with the instructions for use. Contains 1,2-benzisothiazol-3-one. May produce an allergic reaction.

Hazardous components which must be listed on the label:

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.



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### SECTION 16. OTHER INFORMATION

Approval number, MAPP 16327..

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

Based upon SDS release dated 16/12/2013, version 6 with local amendment.

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

H302	Harmful if swallowed
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	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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