SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
Product name : AMISTAR
Design code : A12705B

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

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
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

Labelling: Regulation (EC) No. 1272/2008

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Word : Warning</td>
</tr>
<tr>
<td>Hazard Statements : H410 Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>Precautions Statements : P102 Keep out of reach of children</td>
</tr>
<tr>
<td>: P270 Do not eat, drink or smoke when using this product</td>
</tr>
<tr>
<td>: P273 Avoid release to the environment</td>
</tr>
<tr>
<td>: P391 Collect spillage</td>
</tr>
<tr>
<td>: 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.</td>
</tr>
<tr>
<td>Supplemental Information : EUH401 To avoid risks to human health and the environment comply with the instructions for use.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No. EC No. Registration Number</th>
<th>Classification (REGULATION (EC) No. 1272/2008)</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azoxyestrin</td>
<td>131860-33-8</td>
<td>Acute Tox.3; H331 Aquatic Acute1; H400 Aquatic Chronic1; H410</td>
<td>22.9 % w/w</td>
</tr>
<tr>
<td>Alcohols, C16-18, ethoxyalted</td>
<td>68439-49-6</td>
<td>Eye Dam.1; H318 Acute Tox. 4; H302</td>
<td>10 - 18 % w/w</td>
</tr>
<tr>
<td>Naphthalenesulphonic acid, dimethyl-, polymer with formaldehyde and methyl-naphthalenesulfonic acid, sodium salt.</td>
<td>9008-63-3</td>
<td>Eye Irrit.2; H319 Skin Irrit.2; H315</td>
<td>1 – 5 % w/w</td>
</tr>
<tr>
<td>Propane-1,2-diol</td>
<td>57-55-6 200-338-0</td>
<td></td>
<td>4 – 12 % w/w</td>
</tr>
</tbody>
</table>

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

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 center 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: contains petroleum distillates and/or aromatic solvents.

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.

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.

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Exposure limit(s)</th>
<th>Type of exposure limit</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>azoxystrobin</td>
<td>2 mg/m³ 8 h TWA</td>
<td>SYNGENTA</td>
<td></td>
</tr>
<tr>
<td>Propane-1,2-diol</td>
<td>10 mg/m³, 150 ppm, 470 mg/m³ 8 h TWA</td>
<td>UK HSE, UK HSE</td>
<td></td>
</tr>
</tbody>
</table>

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 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
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Off-white to yellow-orange</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>5-9 at 1% w/v</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 97 °C at 97.5 kPa Pensky-Martens c.c.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>1.1 g/ml</td>
</tr>
<tr>
<td></td>
<td>1.09 g/cm³</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition Coefficient n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>475 °C</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>76.0 – 427 mPa.s at 40 °C</td>
</tr>
<tr>
<td></td>
<td>117 – 541 mPa.s at 20 °C</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidising</td>
</tr>
</tbody>
</table>

9.2 Other information

Miscibility: Miscible

Surface tension: 32.0 mN/m at 20 °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: None known. Hazardous polymerisation does not occur.

10.4 Conditions to avoid: No information available

10.5 Incompatible materials: No information available

10.6 Hazardous decomposition: Combustion or thermal decomposition will evolve
SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity : LD50 rat, >2000 mg/kg
The toxicological data has been taken from products of similar composition.

Acute inhalational toxicity : LC50 rat, > 6.32 mg/ml, 4h
The toxicological data has been taken from products of similar composition.

Acute dermal toxicity : LD50 rat, >2000 mg/kg
The toxicological data has been taken from products of similar composition.

Skin corrosion/irritation : Rabbit: non-irritating
The toxicological data has been taken from products of similar composition.

Serious eye damage/eye irritation : Rabbit: non-irritating
The toxicological data has been taken from products of similar composition.

Respiratory or skin sensitisation : Guinea pig: not sensitising
The toxicological data has been taken from products of similar composition.

Germ cell mutagenicity : Did not show mutagenic effects in animal experiments.

Carcinogenicity : Did not show carcinogenic effects in animal experiments.

Reproductive toxicity : Did not show reproductive toxicity effects in animal experiments.

STOT – repeated exposure : No adverse effect has been observed in chronic toxicity tests.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish : LC50 Oncorhynchus mykiss (rainbow trout), 1.2 mg/l, 96 h
LC50 Cyprinus carpio (Carp), 2.8 mg/l, 96 h

Toxicity to aquatic invertebrates : EC50 Daphnia magna (Water flea), 0.83 mg/l, 48 h

Toxicity to aquatic plants : ErC50 Pseudokirchneriella subcapitata (green algae), 2.2 mg/l, 72 h

12.2 Persistence and degradability

Biodegradability : Not readily biodegradable
Stability in water : Degradation half life: 214 d. Stable in water
Stability in soil : Degradation half life: 80 d. Not persistent in soil

12.3 Bioaccumulative potential

azoxystrobin : Does not bioaccumulate.

12.4 Mobility in soil

azoxystrobin : The substance has low to very high mobility in soil.
12.5 Results of PBT and vPvB assessments

azoxystrobin: 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

None known

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.

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. (AZOXYSTROBIN)
14.3 Transport hazard class(es): 9
14.4 Packing Group; III
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, N.O.S. (AZOXYSTROBIN)
14.3 Transport hazard class(es): 9
14.4 Packing Group: III
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. (AZOXYSTROBIN)
14.3 Transport hazard class(es): 9
14.4 Packing Group: III
14.5 Environmental hazards: Marine Pollutant

14.6 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-Labelling

<table>
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<tr>
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<tbody>
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<tr>
<td>Supplemental Information</td>
<td>:EUH401 To avoid risks to human health and the environment comply with the instructions for use</td>
</tr>
</tbody>
</table>

Hazardous components which must be listed on the label:

15.2 Chemical Safety Assessment
A Chemical Safety Assessment is not required for this substance.

SECTION 16: OTHER INFORMATION

Further information

Approval number, MAPP 10443; PCS No. 01351
Use plant protection products safely. Always read the label and product information before use.
Based upon SDS release dated 31/07/2013, version 15 with local amendment.

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

H302 Harmful if swallowed
H315 Causes skin irritation
H318 Causes serious eye damage
H319 Causes serious eye irritation
H331 Toxic if inhaled
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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