

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

IDENTIFICATION OF THE SUBSTANCE OR PREPARATION

Tradenname **AMISTAR PRO**
 Design Code **YF10137/A12824A**
 AGI Code **1001255**

COMPANY / UNDERTAKING IDENTIFICATION

Company Syngenta Crop Protection UK Ltd
 CPC4, Capital Park, Fulbourn, Cambridge CB21 5XE
 Phone (01223) 883400
 Fax (01223) 835211
 Website www.syngenta-crop.co.uk

Emergency Phone 0044 (0)1484 538444 (24h)

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

CAS-NO.	EC-NO.	CHEMICAL NAME	CONCENTRATION (% W/W)	HAZARD SYMBOLS	RISK PHRASES (R)
67564-91-4	266-719-9	fenpropimorph	27.5	Xn, N	22,38,51/53,63
131860-33-8		azoxystrobin	9.8	T, N	23,50/53
9038-95-3		oxirane, methyl-, polymer with oxirane, monobutyl ether	>=5 to <=10	Xn, N	22,38,41

For R-phrases in full, see section 16.

3. HAZARDS IDENTIFICATION

Harmful by inhalation. Irritating to skin. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of harm to the unborn child.

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.

F U N G I C I D E

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.

5. FIRE FIGHTING MEASURES

SUITABLE 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.

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 protection 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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to protective measures listed in sections 7 and 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Method for cleaning up: Contain and collect spillage 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).

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

7. HANDLING AND STORAGE

HANDLING

Advice on safe handling: No special technical protective measures required. No special handling advice required. 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: 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 feeding stuffs.

Other data: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

Hazardous ingredients LTEL, 8 hr TWA

HSE OES EH40/2002:

Propane-1,2-diol Total (vapour & particulates): 150 ppm 474 mg/m³.

Propane-1,2-diol Particulates: 10 mg/m³.

SYNGENTA Standard:

Azoxystrobin: 2 mg/m³.

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 measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protection: 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: A combination gas, vapour and particulate respirator may be necessary until effective technical measures are installed. Protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

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. 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: impervious protective suit.

F U N G I C I D E

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	Orange, yellow, off-white
Physical State/Form:	Liquid
Oxidising Properties:	Not oxidising
Explosive Properties:	Not explosive
Density:	1.02 g/ml
pH Value:	8.5
Solubility:	Miscible in/with water
Odour:	Weak

10. STABILITY AND REACTIVITY

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

Hazardous reactions: None known. Hazardous polymerisation does not occur. Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (LETHAL DOSES)

LD₅₀ Oral rat: >2000 mg/kg

LD₅₀ Dermal rat: >2000 mg/kg

ACUTE TOXICITY (IRRITATION, SENSITISATION, ETC)

Eye Irritation: Mild irritant to rabbit eyes.

Skin Irritation: Moderate irritant to rabbit skin.

Skin Sensitisation – Buehler (guinea pig): Causes sensitisation.

LONG-TERM TOXICITY

Did not show mutagenic effects in animal experiments.

Did not show carcinogenic effects in animal experiments.

Developmental effects at moderate doses have been reported in rats and rabbits. This is not considered to be a risk to man when handled and used as directed on the label. This information applies to fenpropimorph.

12. ECOLOGICAL INFORMATION

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

Azoxystrobin has moderate mobility in soil. Azoxystrobin has medium potential for bioaccumulation, is stable in water and is moderately persistent in soil. Fenpropimorph is not readily biodegradable.

ECOTOXICITY EFFECTS

Toxicity to Fish: LC₅₀ 96 hours *Oncorhynchus mykiss* (Rainbow trout): 3.9 mg/l

Toxic to Aquatic Invertebrates: EC₅₀ 48 hours *Daphnia magna*: 0.9 mg/l

Toxicity to Algae: EbC₅₀ 72 hours *Pseudokirchneriella subcapitata* (green algae): 0.07 mg/l

13. DISPOSAL CONSIDERATIONS

Product: Do not contaminate ponds, waterways or ditches with chemical or used containers. 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

RAIL/ROAD/SEA (RID/ADR/IMDG)	Class	UN Number	Packaging Group
	9	3082	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (AZOXYSTROBIN 10%)		
Marine pollutant:	Yes		
AIR (ICAO/IATA)	Not dangerous goods		

15. REGULATORY INFORMATION

Hazard symbols/ Classifications	Xn N	HARMFUL DANGEROUS FOR THE ENVIRONMENT
Risk phrases (R)	20 38 43 50/53 63	Harmful by inhalation. Irritating to skin. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of harm to the unborn child.
Safety phrases (S)	2 13 20/21 35 36/37 57	Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. This material and its container must be disposed of in a safe way. Wear suitable protective clothing and gloves. Use appropriate containment to avoid environmental contamination.
Special label		To avoid risks to man and the environment, comply with the instructions for use.

This preparation is classified as dangerous in accordance with Directive 1999/45/EC.

F U N G I C I D E

16. OTHER INFORMATION

Use: A broad spectrum fungicide.

Always read the label. Use pesticides safely.

Based on SDS Version 8, last change: 10/09/2004.

Product approval number: MAPP 10513

Text of R phrases mentioned in Section 2:

R22 Harmful if swallowed.

R23 Toxic by inhalation.

R38 Irritating to skin

R41 Risk of serious damage to eyes.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R63 Possible risk of harm to the unborn child.

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.