

SAFETY DATA SHEET



Product Name: HERITAGE **Reference No:** 339
Version No.: 1 **Revision Date:** N/A **Date of Introduction:** January 2003

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name HERITAGE
Common name of active ingredient AZOXYSTROBIN
Intended use For use only as a Horticultural Fungicide.
Company Identification **Scotts UK Professional**
The Scotts Company (UK) Limited
Paper Mill Lane
Bramford Telephone +44 (0) 1483 830 492
Ipswich, Suffolk, IP8 4BZ
Emergency Telephone 01865 407333 (24hr)

2. COMPOSITION / INFORMATION ON INGREDIENTS

JBA No: 019225
NPK: N/A

Chemical Characterisation A systemic strobilurin fungicide.

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
AZOXYSTROBIN	131860-33-8	-	T, N, R23, R50/53.	50%

3. HAZARDS IDENTIFICATION

Physicochemical: NOT CLASSIFIED
Health:
Eye contact A moderate irritant to eyes.
Skin contact Slightly irritant to skin.
Inhalation Dust may be irritating to nose and throat.
Environmental: EXTREMELY DANGEROUS TO FISH OR OTHER AQUATIC LIFE.
Do not contaminate surface waters or ditches with chemical or used container.

4. FIRST AID MEASURES

General information
Inhalation Remove patient from exposure, keep warm and at rest. Obtain medical attention if ill effects occur.
Skin contact Take off immediately all contaminated clothing. Wash skin immediately with water, followed by soap and water. Such action is essential to minimise contact with skin. Contaminated clothing should be laundered before re-issue.
Eye contact Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.
Ingestion If swallowed seek medical advice immediately and show the container, label or this data sheet, if possible. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

General hazard	Contain fire water run-off water with, for example, temporary earth barriers.
Extinguishing media	Foam, carbon dioxide (CO ₂) dry powder or water fog extinguishant.
Extinguishing media to avoid	Strong water jet.
Special exposure hazards	The normal granular product does not produce dust clouds, however dust clouds of smaller particle size material will be flammable. See also Section 9. Fine particle dust clouds can produce violent dust explosions if ignited (ST 2). Keep fire exposed containers cool by spraying with water.
Protective equipment	Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and coveralls. See also Section 8.
Clean up methods	Cover spillage with moist sand, soil or sawdust. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains.
Environmental considerations	EXTREMELY DANGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used containers. Spillages or uncontrolled discharges into water courses must be alerted to the appropriate regulatory body.

7. HANDLING & STORAGE

Advice on safe handling	Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.
Storage conditions	Keep in original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Store away from seeds, fertilisers and composts. Protect from frost.
Shelf life	Physically and chemically stable for at least 2 years when stored in the original unopened sales containers at ambient temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls. LTEL (8 hour TWA): 2mg/m ³ Azoxystrobin Syngenta Standard. Not applicable to field use.
Personal protection	When using this product refer to the label for details. Where suitable engineering controls are not fitted or are inadequate, wear suitable protective equipment. When selecting personal protective equipment, users should consult their supplier to confirm that the equipment is suitable. In case of accidental spillage of bulk product, wear personal protective equipment appropriate to the task (see below)
Eye protection	Wear suitable eye/face protection conforming to EN166.
Skin protection	Wear suitable gloves, conforming to EN374. Suitable materials: nitrile rubber
Respiratory protection	Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. Respiratory protective equipment should conform to the appropriate EN standard.
Other protection	Wear suitable protective clothing

9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Free flowing granules.
Colour	Light brown.
Odour	No discernible odour.
pH	6.5 (1% suspension in purified water % at 25°C)
Boiling pt / range	Not available.
Melting pt / range	Not available.
Flash point	Does not flash.
Autoignition temperature	Not available
Minimum Ignition	3..10mJ
Energy (dust cloud)	
Dust explosion (dust cloud)	Class Group A dust
Explosive properties	Non explosive
Density	0.54g/cm ³
Viscosity	Not applicable
Solubility	Miscible in/with water
Oxidising properties	Non-oxidising

10. STABILITY & REACTIVITY

Stability	Stable under normal use and storage conditions
Conditions to avoid	None known.
Material to avoid	None known.
Hazardous reactions	None known.
Hazardous decomposition products	Combustion or thermal decomposition will evolve toxic and irritant vapours
Further information	None.

11. TOXICOLOGICAL INFORMATION**Acute toxicity/irritation studies (finished product)**

Ingestion	Oral LD ₅₀	Rat	>5,000mg/kg	Low oral toxicity
Dermal	Dermal LD ₅₀	Rat	>2,000mg/kg	
Inhalation	Inhalation LC ₅₀	Rat	>4.67mg/l air - 4 hours	
Eye contact	Moderately irritating to rabbit eyes.			
Skin contact	Slightly irritating to rabbit skin.			
Skin sensitisation	Buehler: It is not a skin sensitiser in animal tests.			
Long term exposure	No long term risks to man are associated with this material when handled and used as directed on the label.			
Further information	Unlikely to cause harmful effects when handled and used as directed on the label.			

12. ECOLOGICAL INFORMATION

Environmental fate and distribution	Information applies to Azoxystrobin. The substance is sparingly soluble in water.		
Bioaccumulative potential	The substance has low to intermediate mobility in soil. Information applies to Azoxystrobin. The substance has low potential for bioaccumulation.		
Persistence and degradation	Information applies to Azoxystrobin. There is evidence of rapid degradation in soil. (Field Studies) There is evidence of photodegradation in water. There is no evidence of hydrolysis in water.		
Ecotoxicity			
Toxicity to fish	LC ₅₀ 96 hours	1.1mg formulation/l	Rainbow trout
	LC ₅₀ 96 hours	2.4mg formulation/l	Bluegill sunfish
Toxicity to daphnia	EC ₅₀ 48 hours	1.8µg/l	<i>Daphnia magna</i>
Toxicity to algae	EbC ₅₀ 72 hours	120µg/l	Green alga
	ErC ₅₀ 72 hours	950µg/l	Green alga
Further information	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		

13. DISPOSAL CONSIDERATIONS

Advice on disposal	Do not contaminate ponds, waterways or ditches with chemical or used containers. Surplus material must be disposed of as detailed in the 'Guidelines for the avoidance, limitation and disposal of pesticide waste on the farm' GCPF, 1987. Empty containers should be washed and discarded. Empty containers should not be used for other purposes. Disposal should be in accordance with local, state or national legislation.
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14. TRANSPORT INFORMATION

Road Transport ADR/RID	
UN No.	UN3077
Class-primary	9 Miscellaneous Dangerous Goods
UN Pack. Group	III
Proper Shipping Name	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (AZOXYSTROBIN MIXTURE)
Maritime Transport IMDG	
UN No.	UN3077
Class-primary	9 Miscellaneous Dangerous Goods
UN Pack. Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (contains azoxystrobin 50%)
Marine Pollutant	Yes
Air Transport ICAO/IATA	
UN/ID No.	UN3077
Class-primary	9 Miscellaneous Dangerous Goods
UN Pack. Group	III
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (contains azoxystrobin 50%)

15. REGULATORY INFORMATION**Classification & labelling** NOT CLASSIFIED

This Safety Data Sheet does not form part of the label approved under the Control of Pesticide Regulations 1986.

Following the instructions on the pesticide product label for the specified uses should ensure that the product is used safely and efficaciously for those uses.

Current registration no. MAPP 11383**Risk phrases** NOT APPLICABLE

Safety phrases / precautions (from the label) EXTREMELY DANGEROUS TO FISH OR OTHER AQUATIC LIFE.
Do not contaminate surface waters or ditches with chemical or used container.
WASH HANDS before meals and after work.
WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.
STORE IN ORIGINAL CONTAINER, tightly closed, in a safe place.

16. OTHER INFORMATION

Further information The Control of Substances Hazardous to Health Regulations (COSHH) may be applicable to the use of this product.

Risk phrases referred to in section 2 for composite ingredients.

R23: Toxic by inhalation

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

For further advice authorised persons (e.g. doctor) may contact the National Poisons Information Service Centre:

UK National number: 0870 600 6266

Eire (Dublin) 00 3531 8379964 or 00 3531 8379966

Sources of data EH40/2002 and other suppliers' safety data sheets

Date of issue January 2003

The information on this sheet is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product.

It is not applicable to unusual or non standard uses of the product nor where instructions or recommendations are not followed.