

# ZENECA Ag Products

## MATERIAL SAFETY DATA SHEET

### HERITAGE (TM) Fungicide

Version: 2

Date issued: 05/21/97

MSDS No. US006060\_01

Date printed: 05/29/97

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### Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Company : Zeneca Agricultural Products  
1800 Concord Pike  
Wilmington DE 19850

Phone number : (302) 886-1000

Emergency phone : Medical: 800-327-8633 (1-800 FASTMED)  
Chemtrec: 800-424-9300  
Technical: 302-886-3000

Name used on label : HERITAGE (TM) Fungicide

Product use : Fungicide

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### Section 2 – COMPOSITION/INFORMATION ON INGREDIENTS

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Identity	CAS-no.	Typical %	Other information
AZOXYSTROBIN TECHNICAL	131860-33-8	50 %	
KAOLIN	1332-58-7	40.9 %	
Other Ingredients:		9.1 %	

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### Section 3 – HAZARDS IDENTIFICATION

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Physical hazards:

None

Health hazards:

This material may cause mild irritation following eye contact.

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### Section 4 – FIRST AID MEASURES

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IF IN EYES:

Immediately flush with plenty of water for at least 15 minutes. If redness, itching or a burning sensation develops, have eyes examined and treated by medical personnel.

IF ON SKIN:

Wash material off the skin with plenty of soap and water. Irritation will probably not develop following contact with human skin. If redness, itching or a burning sensation develops, get medical attention.

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#### IF SWALLOWED:

Provided the patient is conscious, give 1 or 2 glasses of water to drink. Immediately contact Zeneca's Emergency Information Network at 1-800-F-A-S-T-M-E-D (327-8633). Vomiting should only be induced under the direction of a physician or a poison control center. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer water. Immediately transport victim to an emergency facility.

#### IF INHALED:

Remove victim to fresh air. Apply artificial respiration if breathing has ceased or shows signs of failing. Obtain medical attention as a precaution.

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### Section 5 – FIRE FIGHTING MEASURES

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#### Flash point :

Not applicable.

#### Autoignition temperature :

No data

#### Flammable limits (STP): :

Not applicable.

#### EXTINGUISHING MEDIA:

For small fires, use foam, carbon dioxide or dry powder extinguishant. For large fires, use foam or water-fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.

#### PROTECTIVE EQUIPMENT:

A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

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### Section 6 – ACCIDENTAL RELEASE MEASURES

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#### ENVIRONMENTAL PRECAUTIONS:

Washings must be prevented from entering surface water drains.

#### METHODS FOR CLEANING UP:

Cover spillage with moist sand, soil or sawdust. Transfer to a container for disposal. Wash the spillage area with water, and flush to a sewer serviced by a wastewater treatment facility, if that facility is permitted to treat such wastewaters. Washings must be prevented from entering surface water drains.

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### Section 7 – HANDLING AND STORAGE

#### SAFE HANDLING ADVICE:

Avoid contact with skin and eyes. Do not breathe dust. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

#### REQUIREMENTS FOR STORAGE ROOMS:

Keep away from food, drink and animal feeding stuffs. Keep only in the original container in a cool, well ventilated place.

#### ADDITIONAL INFORMATION:

Read the label before use.

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### Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Occupational exposure limits

ZENECA Standard AZOXYSTROBIN TECHNICAL

8 hr TWA 2 mg/m<sup>3</sup>

OES/HSE Propane-1,2-diol (Propylene glycol)

Total(vapour & particulates)

8 hr TWA 150 ppm

470 mg/m<sup>3</sup>

Particulates

8 hr TWA 10 mg/m<sup>3</sup>

#### Occupational exposure standards

No ACGIH TLV or OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice.

Not applicable to field use.

#### ENGINEERING CONTROLS:

This product is intended for use outdoors where engineering controls are not necessary.

#### BODY PROTECTION:

This product is FIFRA regulated. Refer to product labeling for end-user Personal Protection requirements.

Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves and shoes plus socks.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, waterproof gloves and shoes plus socks.

#### HYGENIC MEASURES:

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves

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before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### General information

An adequate supply of clean potable water should be available to allow thorough flushing of skin and eyes in event of contact with this compound.

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### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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Physical state	: Granule
Color	: Beige to brown
Odor	: No characteristic odor
Melting point	: 237.2 .. 240.8 °F This information is on the technical material.
Vapor Pressure	: 1.25 mm Hg at 25 °C This information is on the technical material.
Vapour density	: No data
Specific gravity	: No data
Bulk density	: 31.2 .. 43.7 lb/cu ft
Solubility	: dispersible in/with water
pH-value (quant.)	: 5 .. 8

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### Section 10 – STABILITY AND REACTIVITY

#### HAZARDOUS REACTIONS (CONDITIONS TO AVOID)

Stable under normal conditions.

Hazardous polymerization:

Will not occur

#### HAZARDOUS REACTIONS (MATERIALS TO AVOID)

oxidizing agents

#### HAZARDOUS DECOMPOSITION PRODUCTS

Combustion products - Carbon dioxide, carbon monoxide.

Combustion or thermal decomposition will evolve toxic and irritant vapors.

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### Section 11 - TOXICOLOGICAL INFORMATION

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#### ACUTE TOXICITY (LETHAL DOSES)

##### LD50 Oral rat

Dose : > 5000 mg/kg

##### LD50 Dermal rat

Dose : > 2000 mg/kg

##### LC50 Inhalation rat

Dose : > 4.67 mg/l

Additional inform. : Unlikely to cause harmful effects under normal conditions of handling and use.

#### ACUTE TOXICITY (IRRITATION, SENSITIZATION ETC.)

##### Eye Irritation

Results : Moderate irritant.

##### Skin Irritation

Results : SLIGHT IRRITANT

##### Skin Sensitization - Buehler guinea pig

Results : It is not a skin sensitizer.

##### Inhalation

Results : May be irritant to the respiratory tract.

#### DELAYED OR CHRONIC TOXICOLOGICAL EFFECTS

##### Long Term Exposure

Symptoms : No long term risks to man are associated with the normal handling and use of this material.

#### GENERAL INFORMATION ABOUT ACUTE OR OTHER TOXICITIES

##### General information

Subchronic and chronic studies at high doses showed bile duct and liver effects in lab animals.

Studies in animals have shown that repeated doses produce no carcinogenic, reproductive or developmental effects.

Material was not mutagenic in lab studies.

Inform. applies to : AZOXYSTROBIN TECHNICAL

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### Section 12 – ECOLOGICAL INFORMATION

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#### ECOTOXICITY

##### Toxicity to fish

LC50 bluegill sunfish

Dose : 1.1 ppm

Assessment : Toxic to fish.

Inform. applies to : AZOXYSTROBIN TECHNICAL

##### Toxicity to daphnia

EC50 daphnia magna

Dose : 259 ppb

Inform. applies to : AZOXYSTROBIN TECHNICAL

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### Section 13 – DISPOSAL CONSIDERATIONS

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Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

Plastic Containers: Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or alternatives allowed by State and local authorities.

Paper/Box Container: Do not reuse container. Completely empty container into application equipment. Then dispose of empty container in sanitary landfill, or alternatives allowed by State and local authorities.

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### Section 14 – TRANSPORT INFORMATION

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#### ROAD TRANSPORT DOT

Not regulated by DOT.

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### Section 15 – REGULATORY INFORMATION

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Other regulations, restrictions and prohibitions

TSCA (Toxic Substances Control Act) Regulations, 40CFR 710:

This product is a pesticide and is exempt from TSCA regulation.

CERCLA and SARA Regulations (40 CFR 355, 370, and 372):

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

Other Determined Regulations:

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None

| EPA

| EPA Registration no.: 10182-408

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### Section 16 – OTHER INFORMATION

The information on this sheet is not a specification, 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.

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