

# ZENECA Ag Products

## MATERIAL SAFETY DATA SHEET

### Daconil Ultrex

Version: 1

Date issued: 11/12/98

MSDS No. US006195\_01

Date printed: 11/13/98

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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 : Daconil Ultrex

Product use : A broad spectrum fungicide.  
Water dispersible granules.

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### Section 2 – COMPOSITION/INFORMATION ON INGREDIENTS

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Identity	CAS-no.	Typical %	Other information
chlorothalonil (ISO)	1897-45-6	82.5 %	

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### Section 3 – HAZARDS IDENTIFICATION

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Physical hazards:  
None

Health hazards:  
Irritant (eye, skin, respiratory passages, skin sensitizer).

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### Section 4 – FIRST AID MEASURES

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#### IF IN EYES:

Check for and remove contact lenses. Immediately flush with plenty of water for at least 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water. Obtain immediate medical attention.

#### IF ON SKIN:

Wash material off the skin with plenty of soap and water. Remove contaminated clothing and footwear. Wash contaminated clothing and decontaminate footwear before reuse. If irritation persists, get medical attention.

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#### IF SWALLOWED:

Do not induce vomiting. Immediately contact Zeneca's Emergency Information Network at 1-800-F-A-S-T-M-E-D (327-8633). If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer water. Never give anything by mouth to an unconscious person. Obtain medical attention.

#### IF INHALED:

Remove victim to fresh air. Until adequate ventilation or other control measures are restored, employ proper respiratory protection. Obtain medical attention.

#### MEDICAL ADVICE:

Persons having a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

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### Section 5 – FIRE FIGHTING MEASURES

#### Flash point :

Nonflammable

#### Autoignition temperature :

Not applicable.

#### Flammable limits (STP): :

Noncombustible

#### EXTINGUISHING MEDIA:

Use water spray, dry chemicals, foam or carbon dioxide.

#### PROTECTIVE EQUIPMENT:

Self-contained breathing apparatus with full facepiece and protective clothing.

#### NFPA RATING

Health

1

Fire

0

Reactivity

0

#### HMIS RATING

Health

3

Fire

0

Reactivity

0

PPE

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Unusual fire and explosion hazards:

May decompose under fire conditions emitting gases and vapors (e.g., hydrogen chloride) which may be toxic and irritating to the respiratory tract.

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### Section 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Wear suitable protective clothing.

ENVIRONMENTAL PRECAUTIONS:

Keep out of lakes, streams or ponds. Do not contaminate waterways by cleaning of equipment or by disposal of wastes.

METHODS FOR CLEANING UP:

Contain spill. Keep out of sewers and drains. Remove as much as possible by absorbing with inert material. Remove any contaminated soil. Place in closed, labeled containers and store in a safe place to await disposal.

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### Section 7 – HANDLING AND STORAGE

REQUIREMENTS FOR STORAGE ROOMS:

Containers should be stored in a cool, dry, well-ventilated area away from flammable materials and sources of heat or flame.

ADDITIONAL INFORMATION:

Do not store near feed, food, or within the reach of children. Open dumping is prohibited.

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### Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Occupational exposure limits

TLV or suggested control value:

No TLV assigned.

VENTILATION:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

EYE PROTECTION:

Wear eye/face protection.

BODY PROTECTION:

Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves and shoes plus socks. Clean clothing on a routine basis. Remove contaminated clothing and wash before rewearing.

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#### RESPIRATORY PROTECTION:

Use MSHA-NIOSH approved respirator for pesticides.

#### GENERAL PERSONAL PROTECTION:

Persons exposed routinely to this product should shower after completing work each day.

#### Worker Protection Standard:

Restricted Entry Interval (REI): 48 hours

PPE for early entry: Coveralls, waterproof gloves, shoes plus socks, protective eyewear.

See label for more detailed information.

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### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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Form	: fine granular solid
Color	: brown
Odor	: slight
Boiling point	: > 350 °C (based on chlorothalonil data)
Melting point	: 250 °C (based on chlorothalonil data)
Freezing temperature	: Not applicable.
Vapor Pressure	: 5.72E-07 Torr at 25 °C
Vapour density	: Not applicable.
Bulk density	: 38 .. 42 lb/cu ft at 20 °C
Specific gravity:	: Not determined
Solubility	: 0.6 .. 1.2 ppm Formulation: Dispersible in water.
pH-value (quant.)	: 8 .. 10
Volatile by volume:	: Not applicable.
Evaporation rate	: Not available

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### Section 10 – STABILITY AND REACTIVITY

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#### HAZARDOUS REACTIONS (CONDITIONS TO AVOID)

Stability:

Stable under normal conditions.

Incompatibility:

None known.

Hazardous polymerization:

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Material is not known to polymerize.

#### HAZARDOUS DECOMPOSITION PRODUCTS

May decompose under fire conditions emitting gases and vapors (e.g., hydrogen chloride) which may be toxic or irritating to the respiratory tract.

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### Section 11 - TOXICOLOGICAL INFORMATION

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#### ACUTE TOXICITY (LETHAL DOSES)

Oral Median Lethal Dose Ingestion rat (both genders)

Dose : > 5000 mg/kg

Additional inform. : May cause irritation of the gastrointestinal tract following ingestion of large amounts.

Dermal Median Lethal Dose Dermal rabbit

Dose : > 2000 mg/kg

Additional inform. : Mildly irritating to skin. Material rarely causes an allergic reaction.

LC50 Inhalation rat (both genders)

Dose : Not applicable.

Additional inform. : May be irritant to the respiratory tract. This is rarely observed. Granular size is not respirable.

Skin absorption

Additional inform. : Not readily absorbed through intact skin.

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

Eye contact

Additional inform. : May cause irreversible damage. However, human experience indicates that this product may cause mild to severe irritation, depending on degree of exposure. No evidence of permanent damage has been found.

#### GENERAL INFORMATION ABOUT ACUTE OR OTHER TOXICITIES

Other effects of overexposure:

Studies on rats and mice have suggested that technical chlorothalonil (97%), when fed at high levels in the diet, may have oncogenic potential to these laboratory animals. However, neither chlorothalonil nor its metabolites interact with DNA and thus are not mutagenic. Tumor formation has been related to a non-genotoxic mechanism of action for which threshold levels have been established on rats and mice. Comprehensive

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dietary and worker exposure studies have shown exposure levels for humans to be well below these threshold levels. In addition, surveillance of chlorothalonil plant workers for over twenty years has not demonstrated any increase in oncogenic potential to humans.

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### Section 12 – ECOLOGICAL INFORMATION

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#### ADDITIONAL INFORMATION ABOUT ECOLOGY

Toxic to fish.

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### Section 13 – DISPOSAL CONSIDERATIONS

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#### Disposal Method:

If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance.

Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal law.

#### Container disposal:

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or by other procedures approved by state and local authorities. If burned, stay out of smoke.

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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 material is listed on the Toxic Substances Control Act Inventory.

SARA 312 Hazards Classification: Acute and chronic health

California Proposition 65: WARNING. This product contains a chemical known to the State of California to cause cancer.

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SARA 313 Inventory Ingredients: Chlorothalonil (82%)

EPA

EPA Registration no.: 50534-202-10182

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### Section 16 – OTHER INFORMATION

We assigned NFPA and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.

This information is intended solely for the use of individuals trained in the particular hazard rating system.

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