

ZENECA Ag Products

MATERIAL SAFETY DATA SHEET

DEMON WP

Version: 1

Date issued: 08/06/98

MSDS No. US002116_01

Date printed: 08/07/98

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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 : DEMON WP

Product use : A pyrethroid insecticide.

A Registered Trade Mark of Zeneca Agricultural Products

Section 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Identity CAS-no.	Typical %	Other information
CYPERMETHRIN TECHNICAL	40 %	
Calcium Silicate		
1344-95-2	27.4 %	
Amorphous Silica		
7631-86-9	18.2 %	
Other Ingredients:	14.4 %	

Ingredients not precisely identified are proprietary or non hazardous.
Values are not product specifications.

Section 3 – HAZARDS IDENTIFICATION

Physical hazards:
None

Health hazards:
inhalation(TLV) , Irritant (skin, eye, skin sensitizer) Harmful :
respiratory system

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Section 4 – FIRST AID MEASURES

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:

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. Wash contaminated clothing and decontaminate footwear before reuse. If redness, itching or a burning sensation develops, get medical attention.

IF SWALLOWED:

Provided the patient is conscious, give 1 or 2 glasses of water to drink. Never give anything by mouth to an unconscious person. 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. If cough or other respiratory symptoms develop, consult medical personnel.

Section 5 – FIRE FIGHTING MEASURES

Flash point :

Not applicable.

Autoignition temperature :

No data.

Flammable limits (STP) :

Not applicable.

EXTINGUISHING MEDIA:

Water fog, alcohol foam, carbon dioxide, dry chemical, halogenated agents.

FIRE AND EXPLOSION HAZARDS:

Combustible.

Keep fire exposed containers cool by spraying with water.

PROTECTIVE EQUIPMENT:

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

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Unusual fire and explosion hazards:

None known.

Section 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Ensure suitable personal protection during removal of spillages. This means wearing a face mask that gives protection against organic vapours, eye protection, chemically resistant gloves, boots and coveralls.

PERSONAL PRECAUTIONS:

Use adequate ventilation and wear an air-supplied respirator to prevent inhalation. Wear suitable protective clothing and eye protection to prevent skin and eye contact.

ENVIRONMENTAL PRECAUTIONS:

Washings must be prevented from entering surface water drains. Toxic to fish. Do not contaminate waterways by cleaning of equipment or by disposal of wastes. Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

METHODS FOR CLEANING UP:

Absorb spillages onto sand, earth or any suitable absorbent material. Generously cover the contaminated areas with common, household detergent (e.g. TIDE, registered trademark of Proctor & Gamble Co.). Using a stiff brush and small amounts of water, work the detergent into the remaining spilled material forming a slurry. Brush the slurry into cracks and crevices and allow to stand for 2-3 minutes. Be careful to completely avoid skin or eye contact. Do not splatter on oneself or bystanders. Spread absorbent on the slurry liquid and shovel mixture into the open drum. Repeat if necessary. Seal drum and dispose of contaminated material in a facility permitted for hazardous waste. Large spills should be handled according to a spill plan. Otherwise, in case of emergency call, day or night, 800-424-9300, Chemtrec.

CONTAINER DISPOSAL:

Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

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Section 7 – HANDLING AND STORAGE

SAFE HANDLING ADVICE:

Avoid contact with skin and eyes. Observe TLV limitations. A sensitized individual should not be exposed to the product which caused the sensitization.

REQUIREMENTS FOR STORAGE ROOMS:

Keep container tightly closed, in a cool, well ventilated place.

MATERIALS NOT TO BE STORED TOGETHER:

Keep food and animal feed in separate area away from the storage/use area.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

OSHA PEL Calcium Silicate

(Total Dust)

8-hour TWA 15 mg/m³

(Respirable Dust)

8-hour TWA 5 mg/m³

ACGIH TLV Calcium Silicate

(Total Dust)

8-hour TWA 10 mg/m³

OSHA PEL Amorphous Silica

8-hour TWA 6 mg/m³

ACGIH TLV Amorphous Silica

8-hour TWA 10 mg/m³

TLV or suggested control value:

No ACGIH TLV or OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice. Zeneca operates its facilities such that employee exposure to Cypermethrin is kept below 0.5 mg/m³ 8-hour TWA.

ENGINEERING CONTROLS:

Use ventilation adequate to maintain safe levels.

EYE PROTECTION:

Chemical tight goggles.

BODY PROTECTION:

Impervious gloves and apron. Wear suitable protective clothing.

RESPIRATORY PROTECTION:

If needed, use MSHA-NIOSH approved respirator for pesticides.

GENERAL PERSONAL PROTECTION:

Eyewash station and safety shower in work area. Wear suitable protective clothing, gloves and eye/face protection. Wear suitable respiratory protective equipment if exposure to high levels of material are likely.

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Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form	: powder
Color	: off-white
Odor	: slightly aromatic
Boiling point	: Not applicable.
Vapor Pressure	: No data.
Vapour density	: No data.
Solubility	: Solubility in water: dispersible
pH-value (quant.)	: 8.6
Specific gravity:	:
	No data.
Volatile by volume:	:
	negligible

Section 10 – STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

HAZARDOUS REACTIONS (CONDITIONS TO AVOID)

Hazardous polymerization:
Will not occur.

HAZARDOUS REACTIONS (MATERIALS TO AVOID)

Incompatible materials:
oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Combustion Products: carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, halogen, halogen acids, possible trace amounts of carbonyl halide.

Section 11 – TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (LETHAL DOSES)

LD50 Ingestion rat

Dose : 1800 mg/kg

Additional inform. : Relative to other materials, this material is classified as "slightly toxic" by ingestion.

LD50 Skin absorption rabbit

Dose : 2000 mg/kg

Additional inform. : Systemically toxic concentrations of this product will probably not be absorbed through human skin.

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ACUTE TOXICITY (IRRITATION, SENSITIZATION ETC.)

Eye contact rabbit

Results : Moderate irritant to rabbit eyes.
Symptoms : A similiar degree of irritation will probably occur after human eye contact.

Inhalation

Symptoms : No toxic effects are known to be associated with inhalation of dust from this material.

Skin Sensitisation

Symptoms : Mild irritant to rabbit skin.
Irritation will probably develop following repeated and/or prolonged contact with human skin. Skin exposure may cause a skin sensation called paresthesia, which is usually described as tingling, itching, burning, prickling, glowing, flushing, numbness or a chapped feeling. Symptoms usually occur around the face (mouth and eyes) but may involve the arms or hands. Symptoms may develop shortly after exposure or can be delayed up to four hours and can persist between 2 and 30 hours following contact. There is no evidence of any long-term or cumulative effects on the skin. The effect may result from transferring the material to the face from contaminated gloves and hands.

Additional inform. : This material is a skin sensitizer in animal testing.

GENERAL INFORMATION ABOUT ACUTE OR OTHER TOXICITIES

General information

The health hazard assessment is based on acute toxicity screening studies.

Other effects of overexposure:

nausea, abdominal pain, vomiting, diarrhea and headache. Respiratory failure can develop following ingestion of this product.

Section 12 – ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to fish

Assessment : Very toxic to fish.

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Section 13 – DISPOSAL CONSIDERATIONS

Do not contaminate waterways by cleaning of equipment or by disposal of wastes. Untreated effluent should not be discharged where it will drain into lakes, streams, or ponds.

Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. 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.

Section 14 – TRANSPORT INFORMATION

ROAD TRANSPORT DOT

Proper Shipping Name : 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S., CYPERMETHRIN MIXTURE

UN No. : UN3077

Packaging group : / III

BULK

ROAD TRANSPORT DOT

NON-BULK

Not regulated by DOT.

Section 15 – REGULATORY INFORMATION

HAZARDOUS INGREDIENTS

CYPERMETHRIN TECHNICAL

Calcium Silicate

Amorphous Silica

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.

EPA

EPA Registration no.: 10182-00071; 10182-00100 (water-soluble packets)

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Section 16 – OTHER INFORMATION

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