

# Material Safety Data Sheet ALIETTE® WDG BRAND FUNGICIDE

MSDS Number: 102000004006 MSDS Version 2.0 Revision Date: 08/23/2005

### **SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

Product Name ALIETTE® WDG BRAND FUNGICIDE

**MSDS Number** 102000004006

**EPA Registration No.** 264-516 **Product Use** FUNGICIDE

Bayer CropScience 2 T.W. Alexander Drive

Research Triangle PK, NC 27709

USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call 1-800-334-7577 (24 hours/day) For Product Information call 1-866-99BAYER (1-866-992-2937)

### **SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name	CAS-No.	Average % by Weight
Fosetyl Aluminium	39148-24-8	80.00
Quartz (Silica, Crystalline)	14808-60-7	0.25

### **SECTION 3. HAZARDS IDENTIFICATION**

NOTE: Please refer to Section 11 for detailed toxicological information.

**Emergency Overview** Caution! Harmful if inhaled or absorbed through skin. Causes skin irritation.

Physical State dry free flowable granules

Odor product specific

**Appearance** brown

**Immediate Effects** 

**Eye** Causes irritation, redness.

**Skin** Harmful if absorbed through skin. Irritant. Causes redness, swelling.

**Ingestion** Harmful if swallowed.

**Inhalation** Harmful if inhaled. May cause upper respiratory tract irritation.



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Chronic or Delayed Long-Term

This product is not listed as a carcinogen by ACGIH, NTP, IARC or OSHA. However, it may contain crystalline silica (quartz), a substance which has been listed as a carcinogen by ACGIH, NTP and IARC. Crystalline silica is a naturally-occurring mineral component of many sands and clays. Although the carcinogenic potential of crystalline silica in humans is controversial, it must be considered if it is inhaled under excessive exposure conditions. The respirable portion of the silica that may be contained in this product, however, is small, such that inhalation exposure during anticipated conditions of use is minimal.

Medical Conditions Aggravated by Exposure No specific medical conditions are known which may be aggravated by exposure to this product. As with all materials which can cause upper respiratory tract irritation, persons with a history of asthma, emphysema, or hyperreactive airways disease may be more susceptible to overexposure. Pulmonary and respiratory diseases may be aggravated by exposure to respirable crystalline silica. Skin contact may aggravate existing skin disease.

#### **SECTION 4. FIRST AID MEASURES**

General Have the product container or label with you when calling a poison control center

or doctor or going for treatment.

**Eye** Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing

eye. Call a poison control center or doctor for treatment advice.

**Skin** Take off all contaminated clothing immediately. Rinse immediately with plenty of

water for at least 15 minutes. Call a poison control center or doctor for treatment

advice.

**Ingestion** Call a poison control center or doctor immediately for treatment advice. Have

person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by

mouth to an unconscious person.

**Inhalation** Move to fresh air. If person is not breathing, call 911 or an ambulance, then give

artificial respiration, preferably mouth-to-mouth if possible. Call a poison control

center or doctor for further treatment advice.

**Notes to Physician** 

Signs and The following symptoms may occur:

Symptoms eye and mucous membrane irritation

May cause skin and eye irritation.

**Treatment** There is no specific antidote. Appropriate supportive and symptomatic treatment

as indicated by the patient's condition is recommended.



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### **SECTION 5. FIRE FIGHTING MEASURES**

Flash Point not applicable

Autoignition Temperature

no data available

Fire and Explosion

Hazards

This product, when mixed with air in critical proportions and in the presence of

an ignition source, may present a dust explosion hazard.

Under fire conditions, toxic, corrosive fumes are emitted.

**Suitable Extinguishing** 

Media

foam, dry powder, carbon dioxide (CO2)

Fire Fighting Instructions

Contain the spread of the fire-fighting media. Dike area to prevent runoff and

contamination of water sources. Fire residues and contaminated fire

extinguishing water must be disposed of in accordance with local regulations. Equipment or materials involved in pesticide fires may become contaminated.

Firefighters should wear NIOSH approved self-contained breathing apparatus

and full protective clothing.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Methods for Cleaning Up Clean up promptly by sweeping or vacuum. Pick up and transfer to properly

labelled containers.

Additional Advice Information regarding safe handling, see section 7. Information regarding

personal protective equipment, see section 8. Information regarding waste

disposal, see section 13.

#### **SECTION 7. HANDLING AND STORAGE**

Handling Procedures Smoking, eating, drinking and the application of cosmetics should be prohibited

in the application area.

Storing Procedures Keep out of the reach of children. Keep away from food, drink and animal

feedingstuffs.

Work/Hygienic Procedures

Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. When in contact with the skin, clean with soap and

water. Remove clothing immediately if pesticide gets inside.

Follow manufacturer's instructions for cleaning/maintaining Personal Protective

Equipment (PPE). Keep and wash PPE separately from other laundry.



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Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your local and regional regulatory agencies, consult the agency responsible for pesticide regulation.

#### **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**General Protection** These recommendations provide general guidance for handling this product.

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal

Considerations.

**Engineering Controls** Provide appropriate exhaust ventilation at places where dust is formed.

**Eye/Face Protection** Eye and face protection requirements will vary dependent upon work

environment conditions and material handling practices.

Safety glasses with side-shields

goggles or

face-shield

**Body Protection** Applicators and other handlers must wear:

Long-sleeved shirt and long pants

Waterproof gloves Shoes plus socks

Consideration must be given both to durability as well as permeation resistance.

**Respiratory Protection** When respirators are required, select NIOSH approved equipment based on

actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or Industry recommendations.

Under normal conditions, in the absence of other airborne contaminants, the following should provide protection from this material up to the conditions specified by the appropriate OSHA, WHMIS or ANSI standard(s):

Air-purifying (half-mask/full-face) respirator with cartridge/canister approved for

use against dusts, mists and fumes, pesticides.

Under conditions immediately dangerous to life or health, or emergency conditions with unknown concentrations, use a full-face positive pressure air-supplied respirator equipped with an emergency escape air supply unit or use a

self-contained breathing apparatus unit.

**Exposure Limits** 

Fosetyl Aluminium 39148-24-8 ACGIH TWA 2 mg/m3

Crystalline)



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Expressed as	as Al
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NIOSH REL 2 mg/m3

Expressed as as Al

OSHA Z1A TWA 2 mg/m3

Expressed as as Al

 US CA OEL
 TWA PEL
 2 mg/m3

 ACGIH
 TWA
 0.05 mg/m3

Quartz (Silica, 14808-60-7 ACGIH TWA

Form of Exposure Respirable fraction.

ACGIH NIC TWA 0.025 mg/m3

Form of Exposure Respirable fraction.

NIOSH REL 0.05 mg/m3

Form of Exposure Respirable dust.

OSHA Z1A TWA 0.1 mg/m3

Form of Exposure Respirable dust.

Z3 TWA 2.4 millions of particles

per cubic foot of air

Form of Exposure Respirable.

Remarks The value is calculated from

a specified equation using a value of 100%. Lower values

of % will give higher exposure limits. See regulation for specific

equation.

Z3 TWA 0.1 mg/m3

Form of Exposure Respirable.

Remarks The value is calculated from

a specified equation using a value of 100%. Lower values

of % will give higher exposure limits. See regulation for specific

equation.

Z3 TWA 0.3 mg/m3

Form of Exposure Total dust.

Remarks The value is calculated from

a specified equation using a value of 100%. Lower values

of % will give higher exposure limits. See regulation for specific

equation.

Respirable dust.

US CA OEL TWA PEL 0.1 mg/m3

Form of Exposure

US CA OEL TWA PEL 0.3 mg/m3

Form of Exposure Total dust.

OSHA Z1 PEL 5 mg/m3

Form of Exposure Respirable fraction.

OSHA Z1 PEL 15 mg/m3



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Form of Exposure Total dust.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** brown

Physical State dry free flowable granules

**Odor** product specific

**pH** 3.5 - 4.0 (1.0 %) at 23 °C

Water Solubility dispersible

Partition Coefficient (n- logPow: -2.1

**octanol/water)** The value mentioned relates to the active ingredient fosetyl aluminium.

### **SECTION 10. STABILITY AND REACTIVITY**

Chemical Stability Stable under normal conditions.

Conditions to Avoid extreme humidity

**Incompatibility** strong acids

strong bases

strong oxidizing agents strong reducing agents

Hazardous Thermal decomposition

**Decomposition Products** oxides of phosphorus

carbon dioxide (CO2) Carbon monoxide phosphine gas

Hazardous Reactions No hazardous reactions when stored and handled according to prescribed

instructions.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute Oral Toxicity rat: LD50: 2,860 mg/kg

Acute Dermal Toxicity rabbit: LD50: > 2,000 mg/kg

Acute Inhalation Toxicity rat: LC50: > 5 mg/l

Exposure time: 4 h

**Skin Irritation** rabbit: slight irritation



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**Eye Irritation** rabbit: Mild eye irritation

**Sensitization** guinea pig: Non-sensitizing

**Assessment Carcinogenicity** 

**ACGIH** 

Quartz (Silica, Crystalline) 14808-60-7 Group A2

**NTP** 

Quartz (Silica, Crystalline) 14808-60-7

IARC

Quartz (Silica, Crystalline) 14808-60-7 Overall evaluation: 1

OSHA None.

#### **SECTION 12. ECOLOGICAL INFORMATION**

## Environmental Precautions

This product is toxic to aquatic and estuarine invertebrates. Drift and runoff from treated areas may be hazardous to fish/aquatic organisms in adjacent sites. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark outside of a treated rice field. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

General Disposal Guidance

Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Dispose of product containers, waste containers and residues according to local, state and federal health and environmental regulations.

**Container Disposal** 

Empty remaining contents. Triple rinse containers. Rinsed packaging may be acceptable for landfill, otherwise incineration will be required in accordance with local regulations. Do not re-use empty containers.

### **SECTION 14. TRANSPORT INFORMATION**

TRANSPORTATION CLASSIFCATION: Not regulated for transportation by any mode

FREIGHT CLASSIFICATION:

Insecticides or Fungicides N.O.I., other than poison

## **SECTION 15. REGULATORY INFORMATION**



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**EPA Registration No.** 264-516

**US Federal Regulations** 

**TSCA list** 

Quartz (Silica, Crystalline) 14808-60-7

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

**US States Regulatory Reporting** 

CA Prop65

This product contains a chemical known to the State of California to cause cancer.

Quartz (Silica, Crystalline) 14808-60-7

This product does not contain any substances known to the State of California to cause reproductive

harm.

**US State Right-To-Know Ingredients** 

Fosetyl Aluminium 39148-24-8 CA, IL, MN Quartz (Silica, Crystalline) 14808-60-7 IL, MA, MN, RI

**Canadian Regulations** 

**Canadian Domestic Substance List** 

Quartz (Silica, Crystalline) 14808-60-7

**Environmental** 

CERCLA

None.

**Clean Water Section 307 Priority Pollutants** 

None

Safe Drinking Water Act Maximum Contaminant Levels

None.

**International Regulations** 

**European Inventory of Existing Commercial Substances (EINECS)** 

Fosetyl Aluminium 39148-24-8 Quartz (Silica, Crystalline) 14808-60-7

**SECTION 16. OTHER INFORMATION** 

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 0 Reactivity - 0 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Renumbered due to new system; revised hazardous components.



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