# Bayer CropScience



MSDS Number: 000000000005

# **ALIETTE® Brand WDG FUNGICIDE**

MSDS Version 1.2

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

Product Name ALIETTE® Brand WDG FUNGICIDE

**Chemical Name** 

**Synonym** Ethyl Hydrogen Phosphonate, Fosetyl-al

MSDS Number 5

Chemical Family

**Chemical Formulation** 

**EPA Registration No.** 264-516

Canadian Registrat. No.

Bayer CropScience 2 T.W. Alexander Drive

Research Triangle PK, NC 27709

USA

For Product Use Information: (866)-992-2937 Monday through Friday(CRLF) 8:00AM-4:30PM(CRLF) For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day(CRLF) For Transportation Emergency CHEMTREC: (800) 424-9300 24 Hours/Day

**Product Use Description** FIFRA regulated use only.

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

Component Name	CAS No.	Concentration % by Weight	
		Minimum	Maximum
ALUMINUM TRIS (O-ETHYL PHOSPHONATE)	39148-24-8	80.0000	
ACETIC ACID	64-19-7		
CALCIUM HYDROXIDE	1305-62-0	0.3000	
QUARTZ	14808-60-7		
Other ingredients (Trade secret)			

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

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

**Emergency Overview** Caution. Hazard to humans and domestic animals. Keep out of the reach of

children. Harmful if swallowed, inhaled or absorbed through the skin. Causes

moderate eye injury. Avoid contact with skin, eyes and clothing.

Physical State solid

Odor acidic

Appearance off white granules

**Immediate Effects** 

**Eye** Irritant. May cause redness, tearing.

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

**Ingestion** Harmful if ingested.

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

**Chronic or Delayed** 

Long-Term

This product contains ingredients that are considered to be probable or

suspected human carcinogens (See Section 11 - Chronic).

Medical Conditions

Aggravated by Exposure

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin

disease.

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

**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 contaminated clothing. Rinse skin immediately with plenty of water for

15-20 minutes. Call a poison control center or doctor for treatment advice.

Immediately call a poison control center or doctor for treatment advice. DO NOT

induce vomiting unless directed to do so by a physician or poison control center. Have a person sip a glass of water if able to swallow. Never give anything by

mouth to an unconscious person.

**Inhalation** Remove victim from immediate source of exposure and assure that the victim is

breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical

attention.

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the patient. Consideration should be given to the possibility that overexposure to

materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

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

Flash Point Not applicable

Fire and Explosion

**Hazards** 

Like all organic and most dry chemicals, as a powder or dust, this product (when mixed with air in critical proportions and in the presence of an ignition source) may present an explosion hazard. Under fire conditions, toxic, corrosive fumes

are emitted.

Suitable Extinguishing

Media

Small Fires:, dry chemical, carbon dioxide (CO2)

Large Fires:, water spray, alcohol foam, polymer foam, ordinary foam

Fire Fighting Instructions

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Dike areas to prevent runoff and contamination of water sources. Dispose of fire control water later.

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

General and Disposal

Cleanup and Disposal of Spill: Avoid creation of dusty conditions. Scrape up and place in appropriate closed container (see Section 7: Handling and Storage). Decontaminate tools and equipment following cleanup.

Evacuation Procedures and Safety: Wear appropriate gear for the situation. See Personal Protection information in Section 8. Ventilate closed spaces before entering. Stay upwind if possible.

**Land Spill or Leaks** 

Containment of Spill: Follow procedure under Cleanup and Disposal of Spill.

Environmental and Regulatory Reporting: If spilled on the ground, the affected area should be scraped clean and placed in an appropriate container for disposal. Do not flush to drain. Prevent material from entering public sewer system or any waterway.

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

## **Handling Procedures**

Avoid direct or prolonged contact with skin and eyes. Do not breathe dust. Do not breathe vapors and mists. Do not ingest. It is recommended that all dust control equipment and material transport systems involved in handling of this product contain explosion relief vents or explosion suppression system or an

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oxygen deficient environment. In addition, all conductive elements of the system that contact this material should be electrically bonded and grounded. This powder should not be appropriately classed electrical equipment.

This product may present a dust explosion hazard.

## Storing Procedures

Store in an area that is away from foodstuffs or animal feed.

# Work/Hygienic Procedures

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Wash exposed skin promptly to remove accidental splashes of contact with this material.

Remove clothing immediately if pesticide gets inside.

Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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 State or Tribe, consult the agency responsible for pesticide regulation.

## Min/Max Storage Temperatures

Not available

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

**Engineering Controls** Where engineering controls are indicated by use conditions of a potential for

excessive exposure exists, the following traditional exposure control techniques

may be used to effectively minimize employee exposures:

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

environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this

material.

It is generally regarded as good practice to wear a minimum of safety glasses

with side shields when working in industrial environments.

**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/MSHA approved equipment based

on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial 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.

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.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

**Exposure Limits** 

ALUMINUM TRIS (O- 39148-24-8 NIOSH REL 2 mg/m3

ETHYL PHOSPHONATE)

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		Expressed		as Al		
		OSHA Z1A	TWA			2 mg/m3
Expressed as as Al						
		US CA OEL	TWA PE	L		2 mg/m3
		ACGIH	TWA			2 mg/m3
ACETIC ACID	64-19-7	ACGIH	TWA			10 ppm
		ACGIH	STEL		4.0	15 ppm
		NIOSH	REL		10 ppm	25 mg/m3
		NIOSH	STEL		15 ppm	37 mg/m3
		OSHA Z1	PEL		10 ppm	25 mg/m3
		OSHA Z1A	TWA	1	10 ppm	25 mg/m3
		US CA OEL	TWA PE	L	10 ppm	25 mg/m3
		US CA OEL US CA OEL	Ceiling STEL		15 nnm	40 ppm
CALCIUM	1305-62-0	ACGIH	TWA		15 ppm	37 mg/m3 5 mg/m3
HYDROXIDE	1303-02-0	ACGIII	1 4 4 7			5 mg/ms
THUNOXIDE		NIOSH	REL			5 mg/m3
		OSHA Z1	PEL			5 mg/m3
		Form of E		Respirable fraction	n.	o mg/mo
		OSHA Z1	PEL			15 mg/m3
Form of Exposure		Total dust.				
		OSHA Z1A	TWA			5 mg/m3
		US CA OEL	TWA PE	L		5 mg/m3
QUARTZ	14808-60-7	NIOSH	REL			0.05 mg/m3
		Form of E	xposure	Respirable dust.		
		OSHA Z1A	TWA			0.1 mg/m3
		Form of E	•	Respirable dust.		
		US CA OEL	TWA PE			0.1 mg/m3
		Form of E		Respirable dust.		
		US CA OEL	TWA PE	_		0.3 mg/m3
		Form of E	•	Total dust.		
		ACGIH	TWA			0.05 mg/m3

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

**Appearance** off white granules

Physical State solid

**Odor** acidic

**pH** 3.6 at 5 wt/wt%

Vapor Pressure Not available

Vapor Density (air = 1) Not available

Specific Gravity Not available

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Boiling Point Not available

Melting/Freezing Point Not available

Solubility (in water) soluble

Other Information Physical and Chemical properties here represent typical properties of this

product. Contact the business area using the Product Information phone number

in Section 1 for its exact specifications.

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

Chemical Stability This material is stable under normal handling and storage conditions described

in Section 7.

Conditions to Avoid extreme humidity

Incompatibility strong bases

strong acids

strong oxidizing agents strong reducing agents

**Hazardous Products of** 

Decomposition

Decomposition Type: thermal

oxides of phosphorus

carbon oxides phosphine gas

Hazardous
Polymerization

(Conditions to avoid)

Not applicable

### **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 4 h

Acute Respiratory Irritation: No test data found for product.

Skin Irritation Rabbit: Slightly irritating

**Eye Irritation** Rabbit: Mildly irritating.

Sensitization Guinea pig: Non-sensitizing

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**Chronic Toxicity** EPA has concluded that fosetyl-Al is unlikely to pose a carcinogenic hazard to

humans.

**Assessment Carcinogenicity** 

**ACGIH** 

QUARTZ 14808-60-7 Group A2

**NTP** 

QUARTZ 14808-60-7

IARC OSHA None

## **SECTION 12. ECOLOGICAL INFORMATION**

**Environmental**This product is toxic to aquatic and estuarine invertebrates. Drift and runoff may be hazardous to aquatic and estuarine organisms in neighboring areas. Do not

be hazardous to aquatic and estuarine organisms in neighboring areas. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of

equipment or disposal of equipment wastewaters.

**Ecological Information** For ecotoxicological data call the product information phone number listed in

Section 1.

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**Environmental Fate** For chemical fate data call the product information phone number listed in

Section 1.

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

# General Disposal Guidance

Do not contaminate water, food, or feed by disposal.

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. 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.

### **Container Disposal**

Do not reuse containers.

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

EPA HAZARDOUS WASTE - NO

#### **RCRA Classification**

Not Regulated under this Statute

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

Transportation Status:

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US Department of Transportation Shipping Name: NOT REGULATED

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### **SECTION 15. REGULATORY INFORMATION**

**US Federal** 

EPA Registration No. 264-516

**TSCA list** 

ACETIC ACID 64-19-7 CALCIUM HYDROXIDE 1305-62-0 QUARTZ 14808-60-7

TSCA 12b export notification

None

SARA Title III - section 302 - notification and information

None

SARA Title III - section 313 - toxic chemical release reporting

None

**US States Regulatory** 

CA Prop65

This product contains a chemical known to QUARTZ 14808-60-7

the state of California to cause cancer.

US State right-to-know ingredients

ALUMINUM TRIS (O-ETHYL 39148-24-8 CA, IL, MN, PA

PHOSPHONATE)

ACETIC ACID 64-19-7 CA, CT, IL, MN, NJ, PA, RI

CALCIUM HYDROXIDE 1305-62-0 CA, IL, MN, PA, RI QUARTZ 14808-60-7 IL, MA, MN, PA

**Canadian Regulations** 

Canadian Registrat. No.

**Canadian Domestic Substance List** 

ACETIC ACID 64-19-7 CALCIUM HYDROXIDE 1305-62-0 QUARTZ 14808-60-7

**Environmental** 

CERCLA COLD CALAD

ACETIC ACID 64-19-7 5,000 lbs

**Clean Water Section 307 Priority Pollutants** 

None

Safe Drinking Water Act Maximum Contaminant Levels

ALUMINUM TRIS (O-ETHYL 39148-24-8

PHOSPHONATE)

**International Regulations** 

**EU Classification** 

None

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

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ALUMINUM TRIS (O-ETHYL 39148-24-8

PHOSPHONATE)

ACETIC ACID 64-19-7 CALCIUM HYDROXIDE 1305-62-0 QUARTZ 14808-60-7

## **SECTION 16. OTHER INFORMATION**

	Health	Flammability	Reactivity	Others
HMIS	2	1	0	
NFPA	2	1	0	

Reason for Revisions: Company name change.

Print Date: 12/16/2002

Supersedes MSDS, which is older than: 12/16/2002

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