

Version 2.0 / USA 102000019662

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# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier				
Trade name	ALIETTE® WDG BRAND FUNGICIDE			
Product code (UVP)	79386508, 80910347			
SDS Number	102000019662			
EPA Registration No.	432-890			
Relevant identified uses of th	e substance or mixture and uses advised against			
Use	Fungicide			
Restrictions on use	See product label for restrictions.			
Information on manufacturer				
	Bayer Environmental Science 2 T.W. Alexander Drive Research Triangle PK, NC 27709 United States			
Emergency Telephone Number (24hr/ 7 days)	1-800-334-7577			
Product Information Telephone Number				

SDS Information or Request SDSINFO.BCS-NA@bayer.com

### **SECTION 2: HAZARDS IDENTIFICATION**

Classification in accordance with regulation HCS 29CFR §1910.1200 Eye irritation : Category 2B Signal word: Warning

Hazard statements Causes eye irritation.

#### **Precautionary statements**

Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Other hazards

No other hazards known.



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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Average % by Weight	
Fosetyl Aluminium	39148-24-8	80.00	
Nonylphenol ethoxylate, branched	68412-54-4	6.18	
Lignosulfonic acid, sodium salt, sulfomethylated	68512-34-5	4.40	
Crystalline quartz (respirable)	14808-60-7	0.16	

### **SECTION 4: FIRST AID MEASURES**

Description of first aid measures			
General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.		
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 physician or poison control center immediately.		
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.		
Eye contact	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 physician or poison control center immediately.		
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. 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. Do not leave victim unattended.		
Most important symptoms and effects, both acute and delayed			
Symptoms	The following symptoms may occur:, The product causes irritation of eyes, skin and mucous membranes.		
Indication of any immediate medical attention and special treatment needed			
Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.		

### **SECTION 5: FIREFIGHTING MEASURES**

Extinguishing media	
Suitable	Foam, Dry powder, Carbon dioxide (CO2)
Unsuitable	None known.



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Special hazards arising from the substance or mixture	In the event of fire the following may be released:, Carbon monoxide (CO), Nitrogen oxides (NOx), Oxides of phosphorus
Advice for firefighters	
Special protective equipment for fire-fighters	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
Further information	Keep out of smoke. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or water courses. Contain the spread of the fire-fighting media.
Flash point	not applicable
Autoignition temperature	no data available
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Explosivity	no data available

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures		
Precautions	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.	
Methods and materials for con	ntainment and cleaning up	
Methods for cleaning up	Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations. Decontaminate tools and equipment following cleanup.	
Additional advice	Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.	
Reference to other sections	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

### Precautions for safe handling

Advice on safe handling	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.
Hygiene measures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.



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Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

#### Conditions for safe storage, including any incompatibilities

**Requirements for storage** areas and containers Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Fosetyl Aluminium	39148-24-8	10 mg/m3 (TWA)		OES BCS*
Crystalline quartz (respirable) (Respirable fraction.)	14808-60-7	0.025 mg/m3 (TWA)	02 2012	ACGIH
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.05 mg/m3 (REL)	2010	NIOSH
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	1989	OSHA Z1A
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	06 2008	TN OEL
Crystalline quartz (respirable) (Particulate.)	14808-60-7	0.27ug/m3 (AN ESL)	02 2013	TX ESL
Crystalline quartz (respirable) (Particulate.)	14808-60-7	14ug/m3 (ST ESL)	02 2013	TX ESL
Crystalline quartz (respirable) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Respirable.)	14808-60-7	2.4millions of particles per cubic foot of air (TWA)	2000	Z3
Crystalline quartz (respirable) (Respirable.)	14808-60-7	0.1 mg/m3 (TWA)	2000	Z3
Crystalline quartz	14808-60-7	0.3 mg/m3	2000	Z3



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(respirable)	(TWA)	
(Total dust.)		

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

### Exposure controls

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

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.		
Hand protection	Chemical resistant nitrile rubber gloves		
Eye protection	Safety glasses with side-shields		
Skin and body protection	Wear long-sleeved shirt and long pants and shoes plus socks.		
General protective measures	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.		

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	grey to tan
Physical State	dry, free flowing granules
Odor	characteristic
Odour Threshold	no data available
рН	3.0 - 4.0 at 5.0 %
Vapor Pressure	not applicable
Vapor Density (Air = 1)	not applicable
Bulk density	28 - 35 lb/ft <sup>3</sup>
Evapouration rate	not applicable
Boiling Point Melting / Freezing Point	not applicable not applicable
Water solubility	dispersible
Minimum Ignition Energy	no data available
Decomposition temperature	no data available
Partition coefficient: n- octanol/water	no data available

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Viscosity	
-	not applicable
Flash point	not applicable
Autoignition tomporoture	na data availabla
Autoignition temperature	no data available
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Explosivity	no data available

### SECTION 10: STABILITY AND REACTIVITY

Reactivity	
Thermal decomposition	no data available
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	Exposure to moisture.
Incompatible materials	Strong acids, Strong bases, Strong oxidizing agents, Strong reducing agents
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

### SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Eye contact, Skin Absorption, Ingestion, Inhalation	
Immediate Effects Eye	Causes irritation, redness. Causes moderate eye injury.	
Skin	Causes irritation, redness, swelling. Harmful if absorbed through skin.	
Ingestion	Harmful if swallowed.	
Inhalation	May cause upper respiratory tract irritation.Harmful if inhaled.	
Information on toxicological effects		
Acute oral toxicity	LD50 (male/female combined rat) 2,860 mg/kg	
Acute inhalation toxicity	LC50 (male/female combined rat) > 5 mg/l Exposure time: 4 h Determined in the form of dust.	
	LC50 (male/female combined rat) > 20.0 mg/l Exposure time: 1 h	

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	Determined in the form of dust. Extrapolated from the 4 hr LC50.
Acute dermal toxicity	LD50 (rabbit) > 2,020 mg/kg
Skin irritation	Slight irritation (rabbit)
Eye irritation	Mild eye irritation. (rabbit)
Sensitisation	Non-sensitizing. (guinea pig)

### Assessment repeated dose toxicity

Fosetyl Aluminium did not cause specific target organ toxicity in experimental animal studies.

#### Assessment Mutagenicity

Fosetyl Aluminium was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

#### Assessment Carcinogenicity

Fosetyl Aluminium was not carcinogenic in lifetime feeding studies in rats and mice.

#### ACGIH

Crystalline quartz (respirable)	14808-60-7	Group A2
NTP		
Crystalline quartz (respirable)	14808-60-7	
IARC		
Crystalline quartz (respirable)	14808-60-7	Overall evaluation: 1
OSHA		
None		

None.

### Assessment toxicity to reproduction

Fosetyl Aluminium did not cause reproductive toxicity in a two-generation study in rats.

#### Assessment developmental toxicity

Fosetyl Aluminium did not cause developmental toxicity in rats and rabbits.

#### **Further information**

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient(s).

### SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Rainbow trout (Oncorhynchus mykiss)) > 120 mg/l Exposure time: 96 h Test conducted with a similar formulation.
Toxicity to aquatic invertebrates	EC50 (Water flea (Daphnia magna))  37 mg/l Exposure time: 48 h
	Test conducted with a similar formulation.

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Toxicity to aquatic plants	EC50 (Scenedesmus subspicatus) 27.7 mg/l Growth rate; Exposure time: 72 h Test conducted with a similar formulation.	
Biodegradability	Fosetyl Aluminium: ; rapidly biodegradable	
Кос	Fosetyl Aluminium: Koc: 0.1	
Bioaccumulation	Fosetyl Aluminium: ; Does not bioaccumulate.	
Mobility in soil	Fosetyl Aluminium: Highly mobile in soils	
Environmental precautions	Drift and runoff from treated areas may be hazardous to 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. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.	

### SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

Product	Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Dispose in accordance with all local, state/provincial and federal regulations.
Contaminated packaging	Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke. Follow advice on product label and/or leaflet.
RCRA Information	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

### **SECTION 14: TRANSPORT INFORMATION**

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

### **SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 432-890



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US Federal Regulations TSCA list		
Nonylphenol ethoxylate, branched	68412-54-4	
Lignosulfonic acid, sodium salt, sulfomethylated	68512-34-5	
Crystalline quartz (respirable)	14808-60-7	where Netification (40 CED 707 Subat D)
None.	SA) Section 12(b) E	xport Notification (40 CFR 707, Subpt D)
SARA Title III - Section 302 - Notificatio	on and Information	
None.		
SARA Title III - Section 313 - Toxic Che None.	mical Release Repo	orting
US States Regulatory Reporting		
<b>CA Prop65</b> This product contains a chemical known to	o the State of Califor	nia to causo cancer
Crystalline quartz (respirable)	14808-60-7	The to cause cancer.
US State Right-To-Know Ingredients		
Crystalline quartz (respirable)	14808-60-7	MN
Consider Regulations		
Canadian Regulations Canadian Domestic Substance List		
Nonylphenol ethoxylate, branched	68412-54-4	
Lignosulfonic acid, sodium salt,	68512-34-5	
sulfomethylated Crystalline quartz (respirable)	14808-60-7	
	11000 00 7	
Environmental		
CERCLA None.		
Clean Water Section 307 Priority Pollut	ants	
None.		
Safe Drinking Water Act Maximum Con None.	itaminant Levels	
International Regulations		
European Inventory of Existing Comme Fosetyl Aluminium	arcial Substances (1 39148-24-8	EINEUS)
Crystalline quartz (respirable)	14808-60-7	

#### **EPA/FIFRA** Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:



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 Signal word:
 Caution!

 Hazard statements:
 Harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye injury. Avoid contact with skin, eyes and clothing.

### **SECTION 16: OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):<br/>Health - 2Health - 2Flammability - 0Instability - 0Others - noneHMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)<br/>Health - 2Health - 2Flammability - 0Physical Hazard - 0PPE -0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Revised according to the current OSHA Hazard Communication Standard

# Revision Date: 03/18/2014

(29CFR1910.1200)

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