

# SAFETY DATA SHEET



## ALIETTE®

Version 3.0 / USA  
102000019662

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Revision Date: 04/13/2020  
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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

Trade name ALIETTE®  
Product code (UVP) 79386508, 80910347  
SDS Number 102000019662  
EPA Registration No. 432-890

#### Relevant identified uses of the substance or mixture and uses advised against

Use Fungicide  
Restrictions on use See product label for restrictions.

#### Information on supplier

Supplier Bayer Environmental Science  
A division of Bayer CropScience LP  
500 Centregreen Way, Suite 400  
Cary, NC 27513  
USA  
Responsible Department Email: SDSINFO.BCS-NA@bayer.com  
Emergency telephone no.  
Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577  
Product Information Telephone Number 1-800-331-2867

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### SECTION 2: HAZARDS IDENTIFICATION

#### Classification in accordance with regulation HCS 29CFR §1910.1200

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

#### Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.  
No health hazards not otherwise classified.

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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Hazardous Component Name	CAS-No.	Concentration % by weight
Fosetyl-Aluminium	39148-24-8	80.0
Nonylphenol ethoxylate, branched	68412-54-4	5.2
Lignosulfonic acid, sodium salt, sulfomethylated	68512-34-5	4.4
Nonylphenol ethoxylate	68412-54-4	1.0

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	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.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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

<b>Symptoms</b>	The following symptoms may occur:., The product causes irritation of eyes, skin and mucous membranes.
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### Indication of any immediate medical attention and special treatment needed

<b>Treatment</b>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.
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## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

<b>Suitable</b>	Foam, Dry powder, Carbon dioxide (CO <sub>2</sub> )
<b>Unsuitable</b>	High volume water jet

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<b>Special hazards arising from the substance or mixture</b>	In the event of fire the following may be released:, Carbon monoxide (CO), Nitrogen oxides (NOx), Oxides of phosphorus
<b>Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
<b>Further information</b>	In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and protective suit. 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.
<b>Flash point</b>	Not applicable
<b>Auto-ignition temperature</b>	No data available
<b>Lower explosion limit</b>	Not applicable
<b>Upper explosion limit</b>	Not applicable
<b>Explosivity</b>	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 containment 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. If the product is accidentally spilled, 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** Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage.

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### 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.  
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 (Respirable fraction.)	39148-24-8	1 mg/m <sup>3</sup> (TWA)	02 2012	ACGIH
Fosetyl-Aluminium	39148-24-8	5 mg/m <sup>3</sup> (TWA)		OES BCS*

\*OES BCS: Internal Bayer AG, Crop Science Division "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

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<b>Appearance</b>	grey to tan
<b>Physical State</b>	dry, free flowing granules
<b>Odor</b>	characteristic
<b>Odour Threshold</b>	No data available
<b>pH</b>	3.0 - 4.0 (5.0 %)
<b>Viscosity, kinematic</b>	No data available
<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density (Air = 1)</b>	Not applicable
<b>Density</b>	No data available
<b>Bulk density</b>	0.45 - 0.56 g/ml (loose)
<b>Evaporation rate</b>	Not applicable
<b>Boiling Point</b>	Not applicable
<b>Melting / Freezing Point</b>	Not applicable
<b>Water solubility</b>	dispersible
<b>Minimum Ignition Energy</b>	No data available
<b>Decomposition temperature</b>	Stable under normal conditions.
<b>Self-accelarating decomposition temperature (SADT)</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Flammability</b>	No data available
<b>Flash point</b>	Not applicable
<b>Auto-ignition temperature</b>	No data available
<b>Lower explosion limit</b>	Not applicable
<b>Upper explosion limit</b>	Not applicable
<b>Explosivity</b>	No data available
<b>Particle size</b>	No data available
<b>Other information</b>	Further safety related physical-chemical data are not known.

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### SECTION 10: STABILITY AND REACTIVITY

#### Reactivity

<b>Thermal decomposition</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight. Exposure to moisture.
<b>Incompatible materials</b>	Strong acids, Strong bases, Strong oxidizing agents, Strong reducing agents
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

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### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Exposure routes</b>	Eye contact, Skin Absorption, Ingestion, Inhalation
<b>Immediate Effects</b>	
<b>Eye</b>	Causes irritation, redness.
<b>Skin</b>	Harmful if absorbed through skin. May cause irritation, redness, swelling.
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	May cause upper respiratory tract irritation. Harmful if inhaled.
<b>Information on toxicological effects</b>	
<b>Acute oral toxicity</b>	LD50 (male/female combined Rat) 2,860 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (male/female combined Rat) > 5.0 mg/l Exposure time: 4 h Determined in the form of dust.
<b>Acute dermal toxicity</b>	LD50 (Rabbit) > 2,020 mg/kg
<b>Skin corrosion/irritation</b>	Slight irritant effect - does not require labelling. (Rabbit)
<b>Serious eye damage/eye irritation</b>	Mild eye irritation. (Rabbit)
<b>Respiratory or skin sensitisation</b>	Skin: Non-sensitizing. (Guinea pig)

#### Assessment STOT Specific target organ toxicity – single exposure

Fosetyl Aluminium: Based on available data, the classification criteria are not met.

#### Assessment STOT Specific target organ toxicity – repeated exposure

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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

Fosetyl-Aluminium 39148-24-8 Group A4

### NTP

None.

### IARC

None.

### OSHA

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.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Further information

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

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## SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) > 120 mg/l Exposure time: 96 h Test conducted with a similar formulation.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 37 mg/l Exposure time: 48 h Test conducted with a similar formulation.
<b>Toxicity to aquatic plants</b>	EC50 (Desmodesmus subspicatus (green algae)) 27.7 mg/l Growth rate; Exposure time: 72 h Test conducted with a similar formulation.
<b>Biodegradability</b>	Fosetyl Aluminium: rapidly biodegradable

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<b>Koc</b>	Fosetyl Aluminium: Koc: 0.1
<b>Bioaccumulation</b>	Fosetyl Aluminium: Does not bioaccumulate.
<b>Mobility in soil</b>	Fosetyl Aluminium: Highly mobile in soils
<b>Additional ecological information</b>	No other effects to be mentioned.
<b>Environmental precautions</b>	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.

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## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Product</b>	Dispose of contents/container in accordance with local regulation.
<b>Contaminated packaging</b>	Do not re-use empty containers. Triple rinse containers. 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.
<b>RCRA Information</b>	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.

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## SECTION 14: TRANSPORT INFORMATION

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

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

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## SECTION 15: REGULATORY INFORMATION

EPA Registration No. 432-890



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### US Federal Regulations

#### TSCA list

Nonylphenol, branched, polyethoxylate	68412-54-4
Lignosulfonic acid, sodium salt, sulfomethylated	68512-34-5
Water	7732-18-5
Sodium acetate – anhydrous	127-09-3

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

No export notification needs to be made.

#### SARA Title III - Section 302 - Notification and Information

Not applicable.

#### SARA Title III - Section 313 - Toxic Chemical Release Reporting

Yes

### US States Regulatory Reporting

#### CA Prop65

WARNING: This product contains a chemical known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Crystalline quartz (respirable)	14808-60-7
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This product does not contain any substances known to the State of California to cause reproductive harm.

#### US State Right-To-Know Ingredients

Crystalline quartz (respirable)	14808-60-7	MN, RI
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None.

#### 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:

**Signal word:** Caution!

**Hazard statements:** Harmful if swallowed, inhaled or absorbed through the skin.  
Causes moderate eye injury.

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## SECTION 16: OTHER INFORMATION

### Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act

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EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

### NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 0      Instability - 0      Others - none

### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1      Flammability - 0      Physical Hazard - 0      PPE -

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

**Reason for Revision:** The following sections have been revised: Section 2: Hazards Identification. Section 3: Composition / Information on Ingredients. Section 15: Regulatory information. Reviewed and updated for general editorial purposes.

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