



**Safety Data Sheet - GHS**

**1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY**

**PRODUCT NAME:** Aloft® GC SC Insecticide  
**EPA REGISTRATION NUMBER:** 59639-212  
**VC NUMBER(S):** 1993  
**PRODUCT DESCRIPTION:** Insecticide  
*Aloft* is a registered trademark of Valent U.S.A. Corporation

**MANUFACTURER/DISTRIBUTOR**  
 VALENT U.S.A. CORPORATION  
 P.O. Box 8025  
 1600 Riviera Avenue, Suite 200  
 Walnut Creek, CA 94596-8025

**EMERGENCY TELEPHONE NUMBERS**  
 HEALTH EMERGENCY OR SPILL (24 hr):  
 (800) 892-0099  
 TRANSPORTATION (24 hr.): CHEMTREC  
 (800) 424-9300 or (202) 483-7616

**PRODUCT INFORMATION**  
 AGRICULTURAL PRODUCTS: (800) 682-5368

The current SDS is available through our website ([www.valent.com](http://www.valent.com)), or by calling the product information numbers listed above.

**2. HAZARDS IDENTIFICATION**

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as the FIFRA-required classifications on the product label. Certain sections of this SDS are superseded by federal law under EPA FIFRA for a registered pesticide. Please see Section 15, REGULATORY INFORMATION for an explanation.

**Classification** - (per U.S. OSHA 29 CFR 1910.1200 (Hazcom 2012))

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Vapors)	Category 2

**Label elements**

**EMERGENCY OVERVIEW**

**Danger**

**Hazard statements**

Toxic if swallowed  
 May be harmful in contact with skin  
 Harmful if inhaled

**Precautionary statements****Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product

**Response**

See Section 4, First Aid Measures

**Eyes** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Skin** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Inhalation** IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Ingestion** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

**FIRE** In case of fire: Use Water spray, fog or regular foam for extinction.

**Spill** None.

**Storage**

Store locked up

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)****Other Information**

- Very toxic to aquatic life
  - Very toxic to aquatic life with long lasting effects
- 63 % of the mixture consists of ingredient(s) of unknown toxicity

For information on Transportation requirements see Section 14.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight/ Percent	TRADE SECRET
Clothianidin	210880-92-5	20 - 30	
Bifenthrin	82657-04-3	10 - 15	
Alcohols, C12-15, ethoxylated	68131-39-5	1 - 2	

Other ingredients, which may be maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identities are withheld because they are considered trade secrets. The hazards associated with the other ingredients are addressed in this document. Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling **(800) 892-0099** at any time.

#### 4. FIRST AID MEASURES

##### EMERGENCY NUMBER (800) 892-0099

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

##### 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 poison control center or doctor for treatment advice.

##### SKIN CONTACT:

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.

##### 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 told to do so by the poison control center or doctor. Do not give anything to an unconscious person.

##### INHALATION:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

##### NOTES TO PHYSICIAN:

None

#### 5. FIRE FIGHTING MEASURES

<b>Flash point °C</b>	>93 °C	
<b>EXTINGUISHING MEDIA:</b>	For a small fire use DRY chemical powder. For a large fire use water spray, fog or foam. Do not use water jet.	
<b>FLAMMABLE LIMITS IN AIR - LOWER (%):</b>		Not applicable
<b>FLAMMABLE LIMITS IN AIR - UPPER (%):</b>		Not applicable
<b>NFPA RATING:</b>		
Health:	2	
Flammability:	1	
Reactivity:	0	
Special:	None	

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgement. Values were not available in the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

**FIRE FIGHTING INSTRUCTIONS:** Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse.

## 6. ACCIDENTAL RELEASE MEASURES

**VALENT EMERGENCY PHONE NUMBER: (800) 892-0099**  
**CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300**  
**OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION**

Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. For additional spill response information refer to the North American Emergency Response Guidebook.

**UN/NA NUMBER:** Not applicable

**EMERGENCY RESPONSE GUIDEBOOK NO.:** Not applicable

### FOR SPILLS AND LEAKS

**CONTAINMENT:** Spill may produce slippery conditions. Avoid runoff into storm sewers or other bodies of water. Dike area to avoid run-off.

**CLEANUP:** Clean up spill immediately. Absorb spill with inert material (such as dry sand or earth), then place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

## 7. HANDLING AND STORAGE

**END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.**

### HANDLING:

Use only in well ventilated area. Avoid contact with skin and eyes. Do not breathe spray mist. Keep pesticide in original container. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### STORAGE:

Store in well ventilated area. Keep container tightly closed. Keep pesticide in original container. Do not store or transport near food or feed. Do not contaminate food or feed. Do not put concentrate into food or drink containers. Do not dilute concentrate in food or drink containers. Store in a cool, dry place, out of direct sunlight.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.**

**EYES & FACE:** Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.

**RESPIRATORY PROTECTION:** Use this material only in well ventilated areas. If operating conditions result in airborne concentrations of this material, the use of an approved respirator is recommended.

**SKIN & HAND PROTECTION:** Do not get on skin or clothing. Skin contact should be minimized by wearing protective clothing including coveralls worn over short-sleeved shirt and short pants, socks, chemical-resistant footwear and chemical-resistant gloves. Remove contaminated clothing.

**ENGINEERING CONTROLS:** Use in a well ventilated area.

### EXPOSURE LIMITS

Chemical Name	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Clothianidin	None	None	None
Bifenthrin	None	None	None
Alcohols, C12-15, ethoxylated	None	None	None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Liquid	<b>Odor</b>	Odorless
<b>Appearance</b>	Viscous	<b>Odor threshold</b>	No information available
<b>Color</b>	Off-white		

<u>PROPERTIES</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	6.6 - 7.6	
<b>Melting point/freezing point</b>	No information available	
<b>Boiling point/boiling range</b>	100° C	
<b>Flash point</b>	>93 °C	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limits in Air</b>		
<b>Upper flammability limits</b>	Not applicable	
<b>Lower flammability limit</b>	Not applicable	
<b>Vapor pressure</b>	No information available	
<b>Vapor density</b>	No information available	
<b>Specific Gravity</b>	No information available	
<b>Water solubility</b>	Dispersible in water	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Viscosity</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	
<b>Density</b>	1.138 g/mL	
<b>Bulk density</b>	No information available	

## 10. STABILITY AND REACTIVITY

**Reactivity**  
Not reactive

**Chemical stability**  
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**  
None under normal processing.

**Conditions to avoid**  
Extremes of temperature and direct sunlight.

**Incompatible materials**

None known based on information supplied.

**Hazardous Decomposition Products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION****ACUTE TOXICITY:**

Oral Toxicity LD <sub>50</sub> (rats)	310 mg/kg	EPA Tox Category	II
Dermal Toxicity LD <sub>50</sub> (rabbits)	>5000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC <sub>50</sub> (rats)	>2.05 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Slightly irritating	EPA Tox Category	IV
Skin Irritation (rabbits)	Slightly irritating	EPA Tox Category	IV
Skin Sensitization (guinea pigs)	Non-sensitizer	EPA Tox Category	Not applicable

**CARCINOGEN CLASSIFICATION**

Chemical Name	IARC	OSHA - Select Carcinogens	NTP Carcinogen List
Clothianidin	Not listed	Not Listed	Not listed
Bifenthrin	Not listed	Carcinogen	Not listed
Alcohols, C12-15, ethoxylated	Not listed	Not listed	Not listed

For a summary of the potential for adverse health effects from exposure to this product, refer to Section 2. For information regarding regulations pertaining to this product, refer to Section 15.

**12. ECOLOGICAL INFORMATION**

The following data were developed with: Clothianidin Technical

**AQUATIC ORGANISM TOXICITY:** Clothianidin Technical is very toxic to aquatic life with long lasting effects:

96-hour LC<sub>50</sub> Rainbow Trout >100 mg/L  
 96-hour LC<sub>50</sub> Bluegill >100 mg/L  
 96-hour LC<sub>50</sub> Sheepshead minnow >100 mg/L  
 48-hour LC<sub>50</sub> Water flea = 40 mg/L  
 96-hour LC<sub>50</sub> Mysid = 0.053 mg/L

**OTHER NON-TARGET ORGANISM TOXICITY:**

This product is toxic to bees exposed to direct treatment, and for more than 5 days after, on blooming crops or weeds. Do not apply this product while bees are actively visiting the treatment area.

**OTHER ENVIRONMENTAL INFORMATION:**

May cause long-term adverse effects in the environment.

### 13. DISPOSAL CONSIDERATIONS

**END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.**

**PRODUCT DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. If allowed by state and local authorities, container may be incinerated. If burned, stay out of smoke.

**DISPOSAL METHODS:** Check government regulations and local authorities for approved disposal of this material. Dispose of in accordance with applicable laws and regulations.

### 14. TRANSPORTATION INFORMATION

**DOT (ground) SHIPPING NAME:** Not regulated for domestic ground transport by U.S. DOT

**EMERGENCY RESPONSE**

**GUIDEBOOK NO.:** Not applicable

**ICAO/IATA SHIPPING NAME:** UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Clothianidin, Bifenthrin), 9, III, Marine Pollutant

**REMARKS:** Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations -- see UN Special Provision 375.

**IMDG SHIPPING NAME:** UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Clothianidin, Bifenthrin), 9, III, Marine Pollutant

**REMARKS:** •Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations – see IMDG 2.10.2.7

•For US shipping, Emergency Response Guidebook No. 171

**EMS NO.:** F-A, S-F

### 15. REGULATORY INFORMATION

#### **EPA-FIFRA LABEL INFORMATION THAT DIFFERS FROM OSHA-GHS REQUIREMENTS:**

This material is a pesticide product registered by the EPA under FIFRA and is subject to certain labeling requirements under federal pesticide law. These requirements may differ from the classification criteria and hazard information required by OSHA GHS for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the FIFRA pesticide label:

#### **EPA FIFRA SIGNAL WORD: WARNING**

- *May be fatal if swallowed*
- *Causes moderate eye irritation*
- *Avoid contact with eyes, skin and clothing.*
- *Avoid breathing vapors or spray.*
- *Keep out of reach of children.*
- *Restricted Use Pesticide due to toxicity to fish and aquatic organisms*

**PESTICIDE REGULATIONS:** All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

**U.S. FEDERAL REGULATIONS:** Ingredients in this product are reviewed against an inclusive list of federal regulations. Therefore, the user should consult appropriate authorities. The federal regulations reviewed include: Clean Water Act, SARA, CERCLA, RCRA, DOT, TSCA and OSHA. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

**Bifenthrin**

SARA 313 Chemicals

1.0% de minimis concentration

**SARA (311, 312):**

Immediate Health:	Yes
Chronic Health:	Yes
Fire:	Yes
Sudden Pressure:	No
Reactivity:	No

**STATE REGULATIONS:** Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities. The state regulations reviewed include: California Proposition 65, California Directors List of Hazardous Substances, Massachusetts Right to Know, Michigan Critical Materials List, New Jersey Right to Know, Pennsylvania Right to Know, Rhode Island Right to Know and the Minnesota Hazardous Substance list. For Washington State Right to Know, see Section 8 for Exposure Limit information. For Louisiana Right to Know refer to SARA information listed under U.S. Regulations above. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

**Bifenthrin**

NJ Right To Know

3194

For information regarding potential adverse health effects from exposure to this product, refer to Sections 2 and 11.

<b>16. OTHER INFORMATION</b>
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<b>REASON FOR ISSUE:</b>	Create a new MSDS for an existing material. Added the EPA registration number.
<b>SDS NO.:</b>	0480
<b>EPA REGISTRATION NUMBER:</b>	59639-212
<b>REVISION NUMBER:</b>	1
<b>REVISION DATE:</b>	11/24/2015
<b>SUPERCEDES DATE:</b>	None
<b>RESPONSIBLE PERSON(S):</b>	Valent U.S.A. Corporation, Corporate EH&S, (925) 256-2803



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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom").

The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

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