



Safety Data Sheet - GHS

1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY

PRODUCT NAME: Arena® 50 WDG Insecticide¹
EPA REGISTRATION NUMBER: 59639-152
VC NUMBER(S): 1694, 2311
SYNONYM(S): V-10170 50 WDG
PRODUCT DESCRIPTION: Insecticide

Arena® is a registered trademark of Sumitomo Chemical Company, Ltd.

MANUFACTURER/DISTRIBUTOR

VALENT U.S.A. LLC
P.O. Box 5075
4600 Norris Canyon Road
San Ramon, CA 94583

EMERGENCY TELEPHONE NUMBERS

HEALTH EMERGENCY (24 hr):
(800) 892-0099
TRANSPORTATION (24 hr.):
US Transportation: CHEMTREC (800) 424-9300
International Transportation: (703) 741-5970

PRODUCT INFORMATION

AGRICULTURAL PRODUCTS: (800) 682-5368

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

2. HAZARDS IDENTIFICATION

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

Acute Toxicity, Inhalation (Category 4)
Specific Target Organ Toxicity – repeated exposure (Category 2 (Blood, ovaries))

Label elements

Signal Word

WARNING

Symbol(s)



Hazard statements

Harmful if inhaled
May cause damage to blood and ovaries through prolonged or repeated exposure

Precautionary statements**Prevention**

Use only outdoors or in well-ventilated area.
Do not breathe dust/spray

Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If exposed or concerned: Call a Poison Center/Doctor

Storage

None

Disposal

Dispose of contents/container in accordance with local/regional/national regulations.

Hazards not otherwise classified (HNOC)

Acute aquatic toxicity (Category 1-Mysid/Daphnia)
Chronic aquatic toxicity (Category 1-Mysid/Daphnia)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%	TRADE SECRET
Clothianidin	210880-92-5	50	
Other Ingredients	Multiple CAS#s	50	*

Specific information 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**

GENERAL: In all cases of doubt, seek medical attention.

EYE CONTACT:

Remove from source of exposure. Flush with copious amounts of water. Remove contact lenses, if present and easy to do, after the first 5 minutes, then continue rinsing. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

SKIN CONTACT:

Remove from source of exposure. Take off contaminated clothing. Flush with copious amounts of water. If irritation occurs or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

INGESTION:

Remove from source of exposure. Move person to fresh air. Do NOT induce vomiting. If signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

INHALATION:

Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. If person is not breathing, call 911, then give artificial respiration.

NOTES TO PHYSICIAN:

Treat symptomatically and supportively

5. FIRE FIGHTING MEASURES

Flash point °C	Not Applicable
Flash point °F	Not Applicable
AUTOIGNITION:	For the Technical Material > 150° C (technical material decomposes at 190° C)
EXTINGUISHING MEDIA:	Dry chemical powder, carbon dioxide, foam. Unsuitable extinguishing media - none known.

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.

HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic gases and irritating fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

VALENT EMERGENCY PHONE NUMBER: (800) 892-0099
CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300

CONTAINMENT: Reduce airborne dust. Avoid runoff into storm sewers or other bodies of water.

CLEANUP: Clean up spill immediately. Vacuum or sweep up material and 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

HANDLING:

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.

Keep container tightly closed. Keep container in a cool well ventilated area. Stable at normal temperatures and storage conditions in closed original package.

Use only in well ventilated area. Avoid contact with skin and eyes. Do not breath dust.

STORAGE:

Store product in original container in a cool, dry area away from children, pets and direct sunlight. Do not store near food or feed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical name	ACGIH Exposure Limits	OSHA Exposure Limits
Clothianidin	TWA:10mg/m ³ Inhalable TWA:3mg/m ³ Respirable	None
Hydrated amorphous silicaKaolin (CAS# 1332-58-7)	NoneTWA: 2mg/m ³	PEL 2 mg/m ³ Respirable fraction
Others	None	None

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. In case of dust formation use a dust mask.

SKIN & HAND PROTECTION: Avoid contact with skin or clothing. Skin contact can be minimized by wearing protective clothing including gloves.

ENGINEERING CONTROLS: Use in a well ventilated area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:		Vapor pressure	Not determined
Physical State	Solid Granules	Vapor density	Not determined
Color	Light tan	Specific Gravity	Not determined
Odor	Odorless	Water solubility	Dispersible in water
pH	6.4 @26 - 27° C	Solubility in other solvents	Not determined
Melting point / freezing point	176.8° C (technical)	Partition coefficient	Not determined
Boiling point / boiling range	Not determined	Autoignition temperature	>150° C (technical)
Flash point	Not determined	Decomposition temperature	190° C (technical)
Evaporation rate	Not determined	Viscosity	Not determined
Flammability (solid, gas)	Not determined	Explosive properties	Not determined
Flammability Limits in Air:		Oxidizing properties	Not determined
Upper flammability limits	Not determined	Liquid Density	Not determined
Lower flammability limits	Not determined	Bulk density	37.4 lb/ft ³ @ 20° C

10. STABILITY AND REACTIVITY

Reactivity

No data available

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

May emit toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral Toxicity LD ₅₀ (rats)	3900 mg/kg (male) 4700 mg/kg (female)	EPA Tox Category	III
Dermal Toxicity LD ₅₀ (rats)	> 5000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC ₅₀ (rats)	> 2.3 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Slight to Moderately irritating; resolved within 7days	EPA Tox Category	III
Skin Irritation (rabbits)	Slightly irritating; resolved within 48hrs	EPA Tox Category	IV
Skin Sensitization (guinea pigs)	Non-sensitizer	EPA Tox Category	Not applicable

CARCINOGEN CLASSIFICATION

Chemical name	IARC Group 1 or 2	OSHA - Select Carcinogens	NTP Carcinogen List
None	None	None	None

TOXICITY OF CLOTHIANIDIN TECHNICAL

SUBCHRONIC: In a subchronic dermal study with rats, the NOAEL is >1,000 mg/kg/day.

CHRONIC/CARCINOGENICITY: No oncogenic effects were observed in the 2-year rat or 18-month mouse feeding studies.

NEUROTOXICITY: Clothianidin is not a neural toxin.

DEVELOPMENTAL TOXICITY: Transient developmental effects (delayed ossification) were observed in rabbits at maternally toxic doses (100 mg/kg/day). The technical material is fetotoxic in animal studies at maternally toxic doses. No teratogenic effects on rats or rabbits were observed.

REPRODUCTION: No reproductive effects were observed in rats at the highest dose tested (2500 ppm).

MUTAGENICITY: *In vivo* tests have demonstrated that the technical material is not mutagenic. Some *in-vitro* tests were positive for mutagenicity. The observed effects *in-vitro* were due to cytotoxic effects. The weight-of-evidence from the *in vivo* whole animal tests suggest that this product does not present a mutagenic hazard.

12. ECOLOGICAL INFORMATION

AVIAN TOXICITY:

The following results were obtained from studies with Clothianidin Technical:

LD₅₀ Japanese quail: 430 mg/kg
LD₅₀ Northern bobwhite: >2000 mg/kg
LC₅₀ Northern bobwhite: >5200 ppm
LC₅₀ Mallard duck: >5200 ppm

AQUATIC ORGANISM TOXICITY:

The following are results from testing of Clothianidin Technical:

Bluegill 96-hr LC₅₀: >117 mg/L
Rainbow trout 96-h LC₅₀: >100 mg/L
Sheepshead minnow 96-hr LC₅₀: >100 mg/L
Water flea 48-hr EC₅₀: 40 mg/L
Mysid 96-hr LC₅₀: 0.053 mg/L
Algae 72-hr ErC₅₀: >100 mg/L
Partition coefficient: log P_{ow}: 0.7 @ 25 C; Degradation in soil: DT₅₀: >140 days

OTHER NON-TARGET ORGANISM TOXICITY:

The following information, based on studies with Clothianidin Technical, show that it is highly toxic to bees:

Honeybee 48-hr oral LD₅₀: 0.0038 ug (microgram)/bee
Honeybee 48-hr contact LD₅₀: 0.044 ug (microgram)/bee
Earthworm 7-day LC₅₀: 19 mg/kg dry soil

13. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with federal, state, provincial, and local regulations. Prevent contamination of environment by wastes.

14. TRANSPORTATION INFORMATION

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

ICAO/IATA SHIPPING NAME: UN 3077 Environmentally Hazardous Substance, Solid, N.O.S. (Clothianidin), 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 IATA Special Provision A197
- For US shipping, Emergency Response Guidebook No. 171

IMDG SHIPPING NAME: UN 3077 Environmentally Hazardous Substance, Solid, N.O.S. (Clothianidin), 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

15. REGULATORY INFORMATION**EPA-FIFRA LABEL INFORMATION**

Pesticide products in the U.S. are registered by the EPA under FIFRA and are 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: CAUTION

- *May cause moderate eye irritation*
- *Harmful if inhaled or absorbed through skin.*
- *Avoid contact with eyes or clothing*
- *Avoid contact with eyes, skin and clothing.*
- *Keep out of reach of children.*

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.

SARA (311, 312):

Immediate Health:	Yes
Chronic Health:	No
Fire:	No
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.

Pennsylvania Right To Know Components

Sodium sulfate	CAS# 7757-82-6
Ammonium sulfate	CAS# 7783-20-2
Kaolin	CAS# 1332-58-7

Massachusetts Right To Know Components

Ammonium sulfate	CAS# 7783-20-2
Kaolin	CAS# 1332-58-7

New Jersey Right To Know Components

Ammonium sulfate	CAS# 7783-20-2
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Rhode Island Right To Know Components

Ammonium sulfate	CAS# 7783-20-2
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16. OTHER INFORMATION

REASON FOR ISSUE:	Add VC number and updated emergency phone numbers
SDS NO.:	0297
EPA REGISTRATION NUMBER:	59639-152
REVISION NUMBER:	6
REVISION DATE:	07/16/2025
SUPERCEDES DATE:	10/27/2020
RESPONSIBLE PERSON(S):	Valent U.S.A. LLC, Corporate EH&S, (925) 256-2803

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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. 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.

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