



**PARK
WEST**

**Shaping
Your
Environment**

Notice of Insecticide Application

Date of Application: August 17th

Location – Trails Park and Pool

Reason for application – Grubs in Turf grass

Product Manufacturer Name – Arena .25g Insecticide

EPA # 59639-157

Active ingredient : Clothianidin

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling.

***Attached is the Label and SDS sheet**

***Dates are subject to change due to weather**

GROUP

4A

INSECTICIDE



Arena®

0.25 G INSECTICIDE¹



**FOR SYSTEMIC INSECT CONTROL
IN TURFGRASS, SOD FARMS,
LANDSCAPE ORNAMENTALS,
INTERIOR PLANTSCAPES AND
NON-BEARING FRUITS AND
NUTS (IN LANDSCAPES).**

Active Ingredient	By Wt.
*Clothianidin.....	0.25%
Other Ingredients.....	99.75%
Total.....	100.00%
*(E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)- 3-methyl-2-nitroguanidine.	

EPA Reg. No. 59639-157
EPA Est. No. 39578-TX-01®, 67545-AZ-01®
Superscript is first letter in lot number.

KEEP OUT OF REACH OF CHILDREN CAUTION

SEE BELOW FOR ADDITIONAL
PRECAUTIONARY STATEMENTS.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling.

FIRST AID

If in eyes: 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.

(continued)

FIRST AID (continued)

If swallowed: Call 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 by mouth to an unconscious person.

If on skin or clothing: 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.

If inhaled: 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.

HOT LINE NUMBER

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

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If there are no instructions for washables available, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not apply where runoff is likely to occur. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

This product is toxic to bees exposed to direct treatment or residues on blooming crops. Do not apply during bloom or when bees are present.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Do not apply this product in any 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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, socks and shoes, chemical-resistant gloves made of any waterproof material.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in the box apply to use of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries and commercial greenhouses.

Keep children and pets off treated area until the dust has settled.

DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

RISKS OF USING THIS PRODUCT

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that

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may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is later, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

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NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability**, which may not be modified by any oral or written agreement.

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law.

Read and follow the entire label of each product to be used in the tank mix with this product.

RESISTANCE MANAGEMENT

Arena® 0.25 G Insecticide¹ contains a Group 4A insecticide. Insect biotypes with acquired resistance to Group 4A insecticides may eventually dominate the insect population if Group 4A insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Arena 0.25 G Insecticide¹ or other Group 4A.

To delay insecticide resistance consider:

- Avoiding the consecutive use of Arena 0.25 G Insecticide¹ or other Group 4A insecticides that have a similar target site of action on the same insect species.
- Using tank mixtures or premixes with insecticides from a different target site of action Group as long as the involved products are all registered for the same use and have different sites of action.
- Basing insecticide use on a comprehensive Integrated Pest Management (IPM) program.
- Monitoring treated insect populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors and/or manufacturer for insecticide resistance management or IPM recommendations for the specific site and resistant pest problems.
- For further information or to report a suspected resistance, you may contact Valent U.S.A. Corporation at 800-898-2536.

INFORMATION

Arena 0.25 G Insecticide¹ is a broad spectrum insecticide, for control of listed insects infesting turf-grass, sod farms, landscape ornamentals, interior plantscapes and non-bearing fruit trees (including apple and pear) and nut trees (in landscapes). When applied as directed, Arena 0.25 G Insecticide¹ provides excellent and long residual insect control.

RESTRICTIONS

- Do not use a foliar application of clothianidin (*Arena* 0.25 G Insecticide¹) following a soil application of clothianidin.
- Do not apply more than a total of 160 lbs of *Arena* 0.25 G Insecticide¹ (0.4 lb ai/A) per acre per season.
- If the maximum season limit of clothianidin as mentioned above has been applied and pest populations require additional treatments, use another registered pesticide that is not in the neonicotinoid class of chemistry.

PLANT TOLERANCE

Neither the manufacturer nor the seller has determined whether or not *Arena* 0.25 G Insecticide¹ can be used safely on all cultivars of plants listed on the label. *Arena* 0.25 G Insecticide¹ has been tested on many cultivars with no phytotoxicity observed at label rates. Since all plant species and their varieties and cultivars have not been tested for tolerance, it is recommended that a small number of plants be treated to make certain that no phytotoxicity occurs, prior to any large scale application to plants. The end user assumes all risks arising from application of *Arena* 0.25 G Insecticide¹ in a manner inconsistent with its labeling. *Arena* 0.25 G Insecticide¹ can be blended just prior to application or co-applied with other crop management tools. However, all plant species and their varieties and cultivars have not been tested with possible blended or co-applied combinations or sequential pesticide treatments. The user must conduct a small scale compatibility and phytotoxicity trial under local conditions to ensure compatibility prior to any large-scale use.

COMMERCIAL AND RESIDENTIAL LANDSCAPE USES

Arena 0.25 G Insecticide¹ is for use on landscape ornamentals, interior plantscapes and non-bearing fruit trees (including apple and pear) and nut trees (in landscapes).

Arena 0.25 G Insecticide¹ should be applied when threshold populations are observed. Do not wait until large insect populations have been established.

Apply to established plants. For control of pests on established plants, irrigate the treated area thoroughly.

Choose lower rates for light infestations and/or smaller plants and higher rates for heavy infestations and/or larger plants.

Application Methods:

Arena 0.25 G Insecticide¹ is a systemic and soil active insecticide when applied to the soil.

Residential Landscapes and In-ground Plants: For flower beds, broadcast *Arena* 0.25 G Insecticide¹ evenly over the top of plants. For treatment of individual shrubs or trees, broadcast *Arena* 0.25 G Insecticide¹ evenly on soil around base of plant within 18 inches of the trunk. Pull back mulch prior to application if mulch is more than 1 inch thick. Irrigate after application with enough water to dissolve granules and move product into root zone.

RESTRICTIONS

- Do not apply more than a total of 160 lbs *Arena* 0.25 G Insecticide¹ (0.4 lb active ingredient clothianidin) per acre per season.

Pests Controlled by *Arena* 0.25 G Insecticide¹ in Landscapes Ornamentals, Interior Plantscapes and Non-bearing Fruit Trees (Including Apple and Pear) and Nut Trees (in Landscapes)

Adelgids including
Hemlock Woolly
Fungus Gnats (larvae)
Glassy-Winged
Sharpshooter
Lacebugs including
Azalea
Leaf Beetles
Leafhoppers
Leafminers including
Boxwood
Serpentine
Mealybugs including
Citrus
Long-tailed
Madeira
Obscure
Pink Hibiscus
Root

Psyllids including
Asian Citrus
Root Weevils (larvae
and adult) including
Black Vine
Roundheaded Borers
Scales (soft)
Thrips including
Chilli
Western Flower
(suppression)
Whiteflies including
Giant
Greenhouse
Silverleaf
Sweetpotato
White Grubs including
Oriental Beetle

SOIL APPLICATION TO INTERIORSCAPES, LANDSCAPES, NON-BEARING FRUIT AND NUT TREES		
For systemic insect control on ornamental plants grown in-ground and outdoor landscapes (commercial, industrial, recreational and residential)		
Crops	<i>Arena</i> 0.25 G Insecticide¹ Rates	Special Instructions
Ornamental Plants including Shrubs Bedding Plants Flowering Plants Foliage Plants Ground Covers Evergreens Ornamental Trees Non-bearing Fruit Trees Non-bearing Nut Trees Non-bearing Vines	Shrubs 0.5 to 1.0 lb/ft of height 5 to 10 lbs per 10 cumulative ft of height Trees 0.5 to 1.0 lb/inch of trunk diameter of breast height (DBH) For multi-stem trees, base rate on cumulative inches of diameter of all stems at breast height.	Only apply to moist soil media. Do not apply to dry or saturated soil. Do not apply to saturated or frozen soil, or when plants are not actively taking up water from soil. Heavy rainfall or inadequate irrigation immediately following application may decrease performance. For optimal control, apply early in the shrub or tree's annual growing cycle.
	Broadcast Application in Herbaceous Flower Beds and Ground Covers Apply 3.6 lbs/1,000 sq ft of bed	Broadcast application may not be effective in trees and shrubs.
<i>Arena</i> 0.25 G Insecticide¹ is a systemic insecticide and must move to the area of the plant where the target pest is feeding. Control of pests may be delayed following an application for one or more weeks as <i>Arena</i> 0.25 G Insecticide¹ moves to the feeding site. Factors such as plant size, soil type and water demands will impact the time between application and obvious insect control. • Do not apply more than a total of 160 lbs <i>Arena</i> 0.25 G Insecticide¹ (0.4 lb ai/A) per acre per season. • Non-bearing fruit and nut trees in landscapes are only for ornamental use. • Do not harvest fruit and nuts from treated trees within one year of application. • This product may be blended just prior to application or co-applied with other compatible insecticides.		

TURFGRASS

Arena 0.25 G Insecticide¹ can be used as directed on grass grown in industrial, commercial and residential landscapes such as, airports, athletic fields, cemeteries, commercial sod farms, golf courses, home lawns, parks and playgrounds.

Arena 0.25 G Insecticide¹ has sufficient residual activity to provide high levels of control when applications are made proceeding or during the egg laying activity of the target pests. The need for an application can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Follow applications with sufficient irrigation or rainfall to move the active ingredient through the thatch.

Arena 0.25 G Insecticide¹ can be applied to turf at 80 to 160 lbs per acre. The rate is dependent on

the target pest(s), their stage of development and the desired of control. Multiple applications can be made but do not exceed the maximum amount per year (160 lbs/A). Consult your local State Agricultural Experiment Station, State Extension Turf Specialists or other turf experts for specific information concerning the timing of application(s). When targeting multiple pests, make application to earliest egg lay or adult flight. The high end of the rate range may be needed if extended control of secondary pests are desired.

Apply *Arena* 0.25 G Insecticide¹ as a broadcast application to turfgrass for control of targeted pests. Use a calibrated spreader to uniformly broadcast *Arena* 0.25 G Insecticide¹ over the treatment area. Do not mow turfgrass until after irrigation or rainfall has occurred to allow for the uptake and distribution of *Arena* 0.25 G Insecticide¹ in soil and turfgrass.

APPLICATION ON TURFGRASS		
PESTS	ARENA 0.25 G INSECTICIDE ¹ APPLICATION RATES	TIMING INSTRUCTIONS
Annual Bluegrass Weevil (larval stages) Bill Bugs Black Turfgrass Ataenius (larval stages) <i>Phyllophaga</i> spp. (May or June Beetle) Spittlebug White Grubs including Asiatic Garden Beetle European Chafer Green June Beetle Japanese Beetle Northern Masked Chafer Oriental Beetle Southern Masked Chafer	80 to 160 lbs/A (0.2 to 0.4 lb ai/A)	Preventive applications: Make applications through peak egg hatch of target species. Use the upper end of the rate range if application is made 60 days or more prior to peak adult flight and/or egg lay. Applications: For applications after egg hatch or when obvious turf damage has occurred use the upper end of the rate range.
Armyworms Chinch Bugs Crane Fly including American European Cutworms Nuisance Ants Sod Webworms	120 to 160 lbs/A (0.3 to 0.4 lb ai/A)	Crane fly: Apply in the spring, when larvae are mature but prior to pupation or in the fall prior to egg hatch. Other pests: Apply when pests first appear.
Mole Crickets (suppression)	160 lbs/A (0.4 lb ai/A)	Time application to peak egg lay or early instars.
• Do not apply more than a total of 160 lbs of <i>Arena</i> 0.25 G Insecticide ¹ (0.4 lb ai/A) per acre per season.		

STORAGE AND DISPOSAL

PESTICIDE STORAGE

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

Store in a dry place away from excessive heat.

Do not store near food or feed.

Store in original container only.

PESTICIDE DISPOSAL

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

CONTAINER DISPOSAL

Nonrefillable container. Do not reuse or refill the container. Offer for recycling, if available. Completely empty the bag into granular application equipment. Then dispose of the empty bag by depositing in a sanitary landfill, or by other procedures allowed by state and local ordinances.

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

Products That Work, From People Who Care is a registered trademark of Valent U.S.A. Corporation

Manufactured for

Valent U.S.A. Corporation

P.O. Box 8025, Walnut Creek CA 94596-8025

Made in U.S.A.

Form 1731-C

EPA Reg. No. 59639-157

EPA Est. No. 39578-TX-01[®], 67545-AZ-01[®]

Superscript is first letter in lot number.

Information contained in this booklet is accurate at the time of printing. Since product testing is a continuous process, please read and follow the directions on the product label for the most current directions and precautionary statements.

Always check with your state to verify state registration status or call 800-89-VALENT (898-2536).



For state registration and/or supplemental labels, please call or visit us online.

Products That Work, From People Who Care[®] | www.valentpro.com | 800-89-VALENT (898-2536)

Read and follow the label instructions before using.

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Arena® 0.25 G Insecticide¹



Safety Data Sheet - GHS

1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY

PRODUCT NAME: Arena® 0.25 G Insecticide¹
EPA REGISTRATION NUMBER: 59639-157
VC NUMBER(S): 1731
SYNONYM(S): None
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 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), 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))

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

Label elements

EMERGENCY OVERVIEW

Precautionary statements

Prevention
None

Response

Emergency Telephone: (800) 892-0099
REVISION NUMBER: 2

SDS NO.: 0376
REVISION DATE: 09/03/2020

Eyes None.
Skin None.
Inhalation None.
Ingestion None.
FIRE None.
Spill None.

Storage
None

Disposal
None

Hazards not otherwise classified (HNOC)

Other Information

197.75 % 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 No.	Weight-%	TRADE SECRET
Clothianidin	210880-92-5	0.25	
Others	Various CAS#s	99.75	*

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**Flash point °C****Flash point °F****AUTOIGNITION:****EXTINGUISHING MEDIA:**

Not applicable

> 150° C (the technical material decomposes at 150° C)

Self-ignition temperature: 208° C

Dry chemical powder, carbon dioxide, foam. Unsuitable extinguishing media - none known.

FLAMMABLE LIMITS IN AIR - LOWER (%):

Not applicable

FLAMMABLE LIMITS IN AIR - UPPER (%):

Not applicable

NFPA RATING:

Health:

1

Flammability:

0

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.

This material is combustible.

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****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 ON LAND:**

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.

FOR SPILLS IN WATER:

CONTAINMENT: This material will disperse or dissolve in water. Stop the source of the release. Contain and isolate to prevent further release on to soil or into surface water.

CLEANUP: Clean up spill immediately. Absorb spill with inert material. Remove contaminated water for treatment or disposal.

7. HANDLING AND STORAGE

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

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:

Do not contaminate water, food, or feed by storage or disposal. Store product in original container in a cool, dry area away from children, pets and direct sunlight. Do not use or store near heat or open flame. Do not store near food or feed.

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. 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.

EXPOSURE LIMITS

Chemical name	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Clothianidin	None	None	None
Others	None	None	None

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid	Odor	Slight odor of lignin/fresh paper
Appearance	Granules	Odor threshold	No information available
Color	Grey		

Arena® 0.25 G Insecticide¹

PROPERTIES	Values	Remarks • Method
pH	8-9	
Melting point/freezing point	No information available	
Boiling point/boiling range	No information available	
Flash point	No information available	Not applicable
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper flammability limits	Not applicable	
Lower flammability limit	Not applicable	
Vapor pressure	No information available	
Vapor density	No information available	
Specific Gravity	No information available	
Water solubility	INSOLUBLE	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	
Liquid Density	No information available	
Bulk density	49.9 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

Strong oxidizing agents.

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products

May emit toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION**ACUTE TOXICITY:**

Oral Toxicity LD ₅₀ (rats)	> 5000 mg/kg	EPA Tox Category	IV
Dermal Toxicity LD ₅₀ (rats)	> 5000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC ₅₀ (rats)	> 6.141 mg/L (technical)	EPA Tox Category	IV
Eye Irritation (rabbits)	Moderately irritating	EPA Tox Category	III

Arena® 0.25 G Insecticide¹

Skin Irritation (rabbits)	Non-irritating	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
Clothianidin	Not listed	Not Listed	Not listed
Others	Not listed	Not listed	Not listed

TOXICITY OF CLOTHIANIDIN TECHNICAL

SUBCHRONIC: The NOEL in a 3-month rat feeding study with Clothianidin Technical was 27.9 mg/kg/day (male) and 34.0 mg/kg/day (female). The NOEL in a 90-day dog feeding study was 19.3 mg/kg/day (male) and 21.2 mg/kg/day (female). In a subchronic dermal study with rats, the NOAEL is >1,000 mg/kg/day.

CHRONIC/CARCINOGENICITY: The active ingredient is not carcinogenic to laboratory animals.

DEVELOPMENTAL TOXICITY: No teratogenic effects on rats or rabbits were observed. 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.

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.

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**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: This product is toxic to aquatic invertebrates. 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

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 outer bag. Do not reuse or refill the outer bag. Completely empty bag into application equipment. Offer bag for recycling if available. If recycling is not available, then dispose of empty bag in a sanitary landfill or by incinerations, or, if allowed by State and local authorities, by burning. 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 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 UN Special Provision 375.

IMDG SHIPPING NAME:

UN 3077 Environmentally Hazardous Substance, Solid, N.O.S. (Clothianidin), 9, III, Marine Pollutant

EMS NO.:

F-A, S-F

15. REGULATORY INFORMATION

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

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

- *Causes moderate eye irritation*
- *Harmful if swallowed, inhaled or absorbed through skin.*
- *Avoid contact with eyes or clothing*

- *Avoid breathing spray mist.*
- *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. 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.

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

16. OTHER INFORMATION

REASON FOR ISSUE:	Update the Manufacturer's address.
SDS NO.:	0376
EPA REGISTRATION NUMBER:	59639-157
REVISION NUMBER:	2
REVISION DATE:	09/03/2020
SUPERCEDES DATE:	04/29/2015
RESPONSIBLE PERSON(S):	Valent U.S.A. LLC, Corporate EH&S, (925) 256-2803

The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Valent U.S.A. LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Valent U.S.A. LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Valent U.S.A. LLC to confirm that you have the most current product label and SDS.

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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