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### 1. Identification

Product identifier used on the label

## **Titan Insecticide**

### Recommended use of the chemical and restriction on use

Recommended use\*: crop protection active ingredient

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

### Details of the supplier of the safety data sheet

<u>Company:</u> BASF Agricultural Solutions Canada Inc. 510, 28 Quarry Park Boulevard SE, Calgary, AB, T2C 5P9 CANADA

Telephone: +1 (403) 523-3000

### **Emergency telephone number**

24 Hour Emergency Response Information CHEMTREC: 1-800-424-9300 BASF HOTLINE: (800) 454-COPE (2673)

## Other means of identification PCP# 27449

Clothianidin

### 2. Hazards Identification

Synonyms:

### According to Hazardous Products Regulations (HPR) (SOR/2015-17)

### **Classification of the product**

Acute Tox.	4 (oral)	Acute toxicity
STOT SE	2	Specific target organ toxicity — single exposure
Aquatic Acute	1	Hazardous to the aquatic environment - acute
Aquatic Chronic	1	Hazardous to the aquatic environment - chronic

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### Label elements



Signal Word: Warning

Hazard Statement:	
H302	Harmful if swallowed.
H371	May cause damage to organs (Nervous system).
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary Statemen	ts (Prevention):
P273	Avoid release to the environment.
P260	Do not breathe mist or vapour.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.
Precautionary Statemen	
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P391	Collect spillage.
Precautionary Statemen	ts (Storage):
P405	Store locked up.

Precautionary Statements (Disposal): P501 Dispose of contents/container in accordance with local regulations.

### Hazards not otherwise classified

Labeling of special preparations (GHS): Product contains the following components and may cause an allergic skin reaction: The substance may cause sensitization of the skin in particularly sensitive individuals. Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2methyl-2H-isothiazol-3-one (3:1), 1,2-benzisothiazol-3(2H)-one

### 3. Composition / Information on Ingredients

### According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Clothianidin

CAS Number: 210880-92-5 Content (W/W): 47.5 % Synonym: Guanidine, N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N"-nitro-, [C(E)]-

Alcohols, C12-15, ethoxylated

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CAS Number: 68131-39-5 Content (W/W): >= 0.3 - < 1.0% Synonym: (POLYMER) Alcohols, C12-15, ethoxylated

### 4. First-Aid Measures

### Description of first aid measures

### General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

### If on skin:

Wash thoroughly with soap and water

### If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

### If swallowed:

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

### Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

### Indication of any immediate medical attention and special treatment needed

Note to physician Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### 5. Fire-Fighting Measures

Suitable extinguishing media: water spray, dry powder, foam, carbon dioxide

Unsuitable extinguishing media for safety reasons: water jet

### Special hazards arising from the substance or mixture

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Hazards during fire-fighting:

carbon monoxide, carbon dioxide, Hydrogen chloride, nitrogen oxides, silica compounds, halogenated compounds, sulfur oxides The substances/groups of substances mentioned can be released in case of fire.

### Advice for fire-fighters

Protective equipment for fire-fighting: Wear self-contained breathing apparatus and chemical-protective clothing.

### Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

### 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

### **Environmental precautions**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

### 7. Handling and Storage

### Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

### Protection against fire and explosion:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Protect product from freezing temperatures. Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination.

Storage stability: Storage temperature: > -10 - < 40 °C Revision date: 2024/08/20 Version: 6.1

### 8. Exposure Controls/Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

### Components with occupational exposure limits

glycerol	OSHA Z1: OSHA Z1:	PEL 15 mg/m3 Total dust; PEL 5 mg/m3 Respirable fraction;
Guanidine, N-[(2-chloro-5- thiazolyl)methyl]-N'-methyl- N''-nitro-, [C(E)]-		56 mg/m3 ; BASF expert judgement TWA value 0.1 mg/m3 Inhalable fraction ;

### Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

### Personal protective equipment

### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

#### Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

### Eye protection:

Safety glasses with side-shields. Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

#### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

### General safety and hygiene measures:

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Remove contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

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### 9. Physical and Chemical Properties

Form: Odour: Odour threshold: Colour: pH value:	liquid characteristic Not determined since harmful by inhalation. white to light beige approx. 5.0 - 7.0 ( 100 %(m), 23 °C)
Melting point: Boiling point: Flash point: Flammability: Lower explosion limit:	The product has not been tested. The product has not been tested. > 100 °C not applicable As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used
Upper explosion limit:	appropriately and in accordance with the intended use. As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Autoignition:	Based on the water content the product does not ignite.
Vapour pressure:	approx. < 0.0000001 hPa ( 25 °C) The data given are those of the active ingredient.
Density:	approx. 1.25 g/cm3 ( 20 °C)
Vapour density: Partitioning coefficient n- octanol/water (log Pow): Thermal decomposition:	not applicable not applicable No decomposition if stored and handled as
Viscosity, dynamic:	prescribed/indicated. 400 - 650 mPa.s
Solubility in water: Evaporation rate: Other Information:	( 20 °C) miscible not applicable If necessary, information on other physical and chemical parameters is indicated in this section.

### 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

### **Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

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### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### Conditions to avoid

See SDS section 7 - Handling and storage.

### Incompatible materials

strong acids, strong bases, strong oxidizing agents

### Hazardous decomposition products

Decomposition products: Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

### 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### **Acute Toxicity/Effects**

Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

<u>Oral</u> Type of value: LD50 Species: rat (female) Value: 2,000 mg/kg (OECD Guideline 423)

Inhalation Type of value: LC50 Species: rat (male/female) Value: > 2.6 mg/l (OECD Guideline 403) Exposure time: 4 h An aerosol was tested. No mortality was observed.

Dermal Type of value: LD50 Species: rat (male/female) Value: > 4,000 mg/kg (OECD Guideline 402) No mortality was observed.

<u>Assessment other acute effects</u> Assessment of STOT single: A single exposure may have relevant toxic effects on organs.

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Target organ: Nervous system

The product has not been tested. The statement has been derived from the properties of the individual components.

### Irritation / corrosion

Assessment of irritating effects: Not irritating to eyes and skin.

### <u>Skin</u> Species: rabbit Method: OECD Guideline 404

<u>Eye</u> Species: rabbit Method: OECD Guideline 405

Sensitization Assessment of sensitization: No sensitizing effect.

Aspiration Hazard not applicable

### Chronic Toxicity/Effects

### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

### Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

### Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

### **Teratogenicity**

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Other Information Misuse can be harmful to health.

### **12. Ecological Information**

### Toxicity

Aquatic toxicity

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Assessment of aquatic toxicity: Very toxic to aquatic life with long lasting effects. The product has not been tested. The statement has been derived from the properties of the individual components.

### Toxicity to fish

Information on: Clothianidin LC50 (96 h) > 104.2 mg/l, Oncorhynchus mykiss (OECD Guideline 203, static)

### Aquatic invertebrates

Information on: Clothianidin EC50 (48 h) 26 mg/l, Daphnia magna (OPP 72-2 (EPA-guideline), static) EC50 (48 h) 0.029 mg/l, Chironomus riparius (static)

### Aquatic plants

Information on: Clothianidin EC50 (72 h) > 120 mg/l (growth rate), Pseudokirchneriella subcapitata (static) No observed effect concentration (72 h) 15 mg/l (growth rate), Pseudokirchneriella subcapitata (static) EC50 (14 d) > 121 mg/l, Lemna gibba (other, semistatic) No observed effect concentration (14 d) 59 mg/l, Lemna gibba (other, semistatic)

### Chronic toxicity to aquatic invertebrates

Information on: Clothianidin No observed effect concentration (21 d) 0.12 mg/l, Daphnia magna (OECD Guideline 211, semistatic) EC10 (28 d) 0.0004 mg/l, Chironomus riparius (other, static)

### Persistence and degradability

<u>Assessment biodegradation and elimination (H2O)</u> The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment biodegradation and elimination (H2O)

Information on: Clothianidin

Not readily biodegradable (by OECD criteria).

### Bioaccumulative potential

<u>Assessment bioaccumulation potential</u> The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment bioaccumulation potential

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Information on: Clothianidin

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### Mobility in soil

<u>Assessment transport between environmental compartments</u> The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Clothianidin

Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

### Additional information

Other ecotoxicological advice: Do not discharge product into the environment without control.

### 13. Disposal considerations

### Waste disposal of substance:

See product label for disposal and recycling instructions.

### Container disposal:

Rinse the container or liner as needed for disposal. Add rinsate to spray tank. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Consult the product label for additional details.

### **14. Transport Information**

<b>Land transport</b> TDG	Not classified as a dangerous good under transport regulations
Sea transport IMDG Hazard class: Packing group: ID number: Hazard label: Marine pollutant: Proper shipping name:	9 III UN 3082 9, EHSM YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains CLOTHIANIDIN SOLUTION)
<b>Air transport</b> IATA/ICAO Hazard class: Packing group:	9 

	0
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM

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Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	
	N.O.S. (contains CLOTHIANIDIN SOLUTION)	

### Further information

According to Section 1.45.1 of Canada Transportation of Dangerous Goods Regulation, the Documentation and Dangerous Goods Safety Marks requirements do not apply to marine pollutant classified as class 9 if they are transported solely on land by road vehicle or railway vehicle. Exempt from regulation when transported by road or rail, in accordance with TDG Regulations 1.45.1. This exemption provides that this product does not require dangerous goods shipping documentation or safety marks when transported on land by road or rail. Product may be shipped as non-hazardous in suitable packages containing a net quantity of less than 450 L/450 Kg under the provisions of TDG: Special Provision 99(2). Not dangerous goods of class 5.1 according to chapter 11 of UN recommendations (Manual of test and criteria), part III, section 34.

### **15. Regulatory Information**

### **Federal Regulations**

### **Registration status:**

Crop Protection DSL, CA released / exempt

### Labeling requirements under Pest Control Products Act

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

This chemical is a pest control product regulated by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHSconsistent safety data sheets. The following is the hazard information required on the pest control product label: WARNING: POISON. READ THE LABEL AND ATTACHED BOOKLET BEFORE USING KEEP OUT OF REACH OF CHILDREN. HARMFUL IF SWALLOWED. May be fatal if swallowed. HARMFUL IF ABSORBED THROUGH SKIN. Avoid contact with the skin, eyes and clothing.

Wash thoroughly after handling.

Remove contaminated clothing and wash before reuse.

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

### **16. Other Information**

### SDS Prepared by:

BASF Agricultural Solutions Canada NA Product Regulations SDS Prepared on: 2024/08/20

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We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

END OF DATA SHEET