

City of Santa Barbara
MATERIAL EXEMPTION REQUEST FOR PESTICIDE APPLICATION

Dept **Facilities** IPM Coordinator **Joe Gonzales** Phone **805-680-3413**

Pesticide Applicator (employee or company) Name **Lenz Pest Control** Phone **805-962-9151**

Application Site **Various** Specific Location **In and around structures.**

Date(s) **Various/As needed - Between July 2022 to August 2023**

Product Name **Advion Ant Gel** Active Ingredient **Indoxacarb**

Number of Applications: One-time Other **Unknown/As needed**

Type: Emergency Trial **Programmatic.** Other _____

Product type: Herbicide **Insecticide** Fungicide Other

Application: Ornamental Turf Golf Vector Control Park Tree Street Tree

Right of Way Vertebrate pest Other **Structural Pest Control**

Is the pesticide on the *Tiered Materials List*? No **Yes** If yes, provide the Tier **Yellow**

If the pesticide is not on the *Tiered Materials List*, provide the following screening information. See the IPM Strategy and the *Tiered Materials List* for instructions on screening the pesticide.

EPA Reg # _____ Signal _____ Estimated Tier _____

Restricted No Yes/Describe _____

P Waste _____ PBT _____ WA PBT _____ Persistant _____ Mobil _____

Cancer _____ Repro _____ Neuro _____ Endocrine _____

Bird _____ Fish _____ Bees _____ Wildlife _____

Attach product label and MSDS to this form.

Describe the pest problem.

Continuous Ant Problems inside a structure.

Describe the management goals and objectives for this site.

Elimination of Argentine Ant colonies near a structure.

What is the damage threshold for this pest at this site?

Interior issues that last longer than 1 week.

Describe the monitoring of the pest and potential predators that was conducted and the control methods previously used at the site.

The City has an Ant Policy that is followed. See attached.

Describe how the product would be applied including frequency, concentration, and method of application.

Gel is applied in cracks and crevices and inside of Bait Stations.

What non-target impacts are anticipated?

N/A

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How does the use of this product help achieve the site management goals? Note if this is curative or preventative.

Can be curative. Ants will return bait to the colonies. It will result in many more ants being killed. There is no preventative control available in the "City Ant Policy"

How will the effectiveness of this product be monitored? Include expected results and indicators of success.

The City Ant Policy will be followed.

Describe site conditions, for example consider the following: restricted access, distance from a creek or body of water, degree of runoff, site is a pesticide-free zone, etc.

Structural Only

List alternatives considered, alternatives implemented and why they were eliminated.

Sanitation has been tried and proved ineffective.

Justification: describe why is applying this pesticide is the best solution and why a less-hazardous chemical, non-chemical option or taking no action is not feasible.

Ant colonies will be affected by the bait. This should lessen the amount of pest control that is done by employees that are suffering with ongoing ant issues inside.

Was outside expertise utilized? No Yes / Describe Lenz Pest Control

Describe future plans to prevent using the chemical again.

No such plans exist.

Signatures _____
Department IPM Coordinator City IPM Coordinator

Completed by the City of Santa Barbara Staff IPM Committee

Vote Tally _____ Disposition: Approved Denied/Reason _____

If approved, follow the attached best management practices.

Comments:

ADVION ANT GEL

Date: 3/18/2014
Replaces: 11/1/2013

1. PRODUCT IDENTIFICATION

Product identifier on label: **ADVION ANT GEL**
Product No.: A20377A
Use: Insecticide
Manufacturer: Syngenta Crop Protection, LLC
Post Office Box 18300
Greensboro NC 27419
Manufacturer Phone: 1-800-334-9481

Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications:

Signal Word (OSHA): Not Applicable

Hazard Statements: Not Applicable

Hazard Symbols:

Precautionary Statements: Not Applicable

Other Hazard Statements: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Other inert ingredients	Other inert ingredients	Not Applicable	99.95%
methyl (4aS)-7-chloro-2,5-dihydro-2- [[methoxycarbonyl][4- (trifluoromethoxy)phenyl]amino]carbonyl]in deno[1,2-e][1,3,4]oxadiazine-4a(3H)- carboxylate	Indoxacarb Technical	173584-44-6	0.05%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

ADVION ANT GEL

Date: 3/18/2014
Replaces: 11/1/2013

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Eye Contact: If in eyes: Rinse eyes with water. First aid measures are not normally required. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: First aid measures are not normally required. Wash material from the skin. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Most important symptoms/effects:

Not Applicable

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

ADVION ANT GEL

Date: 3/18/2014
Replaces: 11/1/2013

Not Applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Other inert ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Indoxacarb Technical	Not Established	Not Established	1 mg/m ³ 8hr & 12hr TWA (respirable)	Manufacturer

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:

Where eye contact is likely use dust-proof chemical goggles.

Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:

A respirator is not normally required when handling this substance.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white, opaque gel

Odor: Very faint

Odor Threshold: Not Available

pH: 7.2 (1% solution in H₂O)

Melting point/freezing point: Not Available

Initial boiling point and boiling range: Not Available

Flash Point (Test Method): Not Available

Flammable Limits (% in Air): Not Available

Flammability: Not Available

Vapor Pressure: Indoxacarb Technical Not Available

Vapor Density: Not Available

Relative Density: 1.15 - 1.24 g/ml @ ca.185°F (85°C)

ADVION ANT GEL

Date: 3/18/2014
 Replaces: 11/1/2013

Solubility (ies): Indoxacarb Technical Not Available
 Partition coefficient: n-octanol/water: Not Available
 Autoignition Temperature: Not Available
 Decomposition Temperature: Not Available
 Viscosity: Not Available
 Other: Not Available

10. STABILITY AND REACTIVITY

Reactivity: Not Applicable
 Chemical stability: Stable under normal use and storage conditions.
 Possibility of hazardous reactions: Will not occur.
 Conditions to Avoid: Not Available
 Incompatible materials: Not Available
 Hazardous Decomposition Products: Not Available

11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure: Dermal

Symptoms of exposure: Not Applicable

Delayed, immediate and chronic effects of exposure: Not Applicable

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:	Oral (LD50 Female Rat) :	> 5000 mg/kg body weight
Dermal:	Dermal (LD50 Rat) :	> 5000 mg/kg body weight
Inhalation:	Inhalation (LC50 Rat) :	> 5.5 mg/l 4 hrs (applies to technical dry material)
Eye Contact:	Non-Irritating (Rabbit)	
Skin Contact:	Non-Irritating (Rabbit)	
Skin Sensitization:	Not a Sensitizer (Mouse)	

Reproductive/Developmental Effects

Indoxacarb Technical: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
 Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

ADVION ANT GEL

Date: 3/18/2014
Replaces: 11/1/2013

Chronic/Subchronic Toxicity Studies

Indoxacarb Technical: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Inhalation; rat; Incoordination, mortality, red blood cell destruction causing abnormal decrease in number of red blood cells (anemia)

Carcinogenicity

Indoxacarb Technical: Animal testing did not show any carcinogenic effects.
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Did not cause genetic damage in animals.

Chemical Name	NTP/IARC/OSHA Carcinogen
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Other inert ingredients	No
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methyl (4aS)-7-chloro-2,5-dihydro-2- [[[(methoxycarbonyl)[4- (trifluoromethoxy)phenyl]amino]carbonyl]inden o[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate	No
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Other Toxicity Information

None

Toxicity of Other Components

Other inert ingredients
Not Applicable

Target Organs

Active Ingredients

Indoxacarb Technical: Nervous system

Inert Ingredients

Other inert ingredients: Not Applicable

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity

Indoxacarb Technical:

Fish (Rainbow Trout) 96-hour LC50 0.65 mg/l

Bird (Bobwhite Quail) LD50 Oral 98 mg/kg

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.60 mg/l

Environmental Fate

Indoxacarb Technical:

Information given is based on data on the components and the ecotoxicology of similar products.

Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

13. DISPOSAL CONSIDERATIONS

Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

ADVION ANT GEL

Date: 3/18/2014
 Replaces: 11/1/2013

Characteristic Waste: Not Applicable
 Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification
 Ground Transport - NAFTA
 Not regulated

Comments
 Water Transport - International
 Not regulated

Air Transport
 Not regulated

15. REGULATORY INFORMATION

Pesticide Registration:
 This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

EPA Registration Number(s):
 100-1498

EPCRA SARA Title III Classification:
 Section 311/312 Hazard Classes: Acute Health Hazard
 Section 313 Toxic Chemicals: None

California Proposition 65:
 Not Applicable

CERCLA/SARA 304 Reportable Quantity (RQ):
 Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261):
 Not Applicable

TSCA Status:
 Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
 Flammability: 1
 Instability: 0

HMIS Hazard Ratings

Health: 1
 Flammability: 1
 Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme

Syngenta Hazard Category: A

ADVION ANT GEL

Date: 3/18/2014
Replaces: 11/1/2013

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 2/22/2013
Revision Date: 3/18/2014 Replaces: 11/1/2013
Section(s) Revised: 1 - 16

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

City of Santa Barbara
MATERIAL EXEMPTION REQUEST FOR PESTICIDE APPLICATION

Dept **Facilities** IPM Coordinator **Joe Gonzales** Phone **805-680-3413**

Pesticide Applicator (employee or company) Name **Lenz Pest Control** Phone **805-962-9151**

Application Site **Various** Specific Location **In and around structures.**

Date(s) **Various/As needed**

Product Name **Advion Granules** Active Ingredient **Indoxacarb**

Number of Applications: One-time Other **Unknown/As needed**

Type: Emergency Trial **Programmatic.** Other _____

Product type: Herbicide **Insecticide** Fungicide Other

Application: Ornamental Turf Golf Vector Control Park Tree Street Tree

Right of Way Vertebrate pest Other **Structural Pest Control**

Is the pesticide on the *Tiered Materials List*? No **Yes** If yes, provide the Tier **Yellow**

If the pesticide is not on the *Tiered Materials List*, provide the following screening information. See the IPM Strategy and the *Tiered Materials List* for instructions on screening the pesticide.

EPA Reg # _____ Signal _____ Estimated Tier _____

Restricted No Yes/Describe _____

P Waste _____ PBT _____ WA PBT _____ Persistent _____ Mobil _____

Cancer _____ Repro _____ Neuro _____ Endocrine _____

Bird _____ Fish _____ Bees _____ Wildlife _____

Attach product label and MSDS to this form.

Describe the pest problem.

Continuous Ant or Roach problems inside or around a structure.

Describe the management goals and objectives for this site.

Elimination of Argentine Ant colonies and exterior roaches near a structure.

What is the damage threshold for this pest at this site?

Interior issues that last longer than 1 week.

Describe the monitoring of the pest and potential predators that was conducted, and the control methods previously used at the site.

The City has an Ant Policy that is followed. The City has a Cockroach Policy that is followed See attached.

Describe how the product would be applied including frequency, concentration, and method of application.

Granules are spread by hand at a rate of 1 tbs per 10sqft.

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What non-target impacts are anticipated?

Other ground insects such as crickets, earwigs and such.

How does the use of this product help achieve the site management goals? Note if this is curative or preventative.

Can be curative. Ants and Roaches will return bait to the colonies. It will result in many more ants being killed. There is no preventative control available in the "City Ant Policy" or "City Cockroach Policy"

How will the effectiveness of this product be monitored? Include expected results and indicators of success.

The City Ant Policy will be followed. The City Cockroach Policy will be followed.

Describe site conditions, for example consider the following: restricted access, distance from a creek or body of water, degree of runoff, site is a pesticide-free zone, etc.

Structural Only

List alternatives considered, alternatives implemented and why they were eliminated.

Sanitation has been tried and proved ineffective.

Justification: describe why is applying this pesticide is the best solution and why a less-hazardous chemical, non-chemical option or taking no action is not feasible.

Ant and roach colonies will be affected by the bait. This should lessen the amount of pest control that is done by employees that are suffering with ongoing ant issues inside.

Was outside expertise utilized? No Yes / Describe Lenz Pest Control

Describe future plans to prevent using the chemical again.

No such plans exist.

Signatures _____

Department IPM Coordinator

City IPM Coordinator

Completed by the City of Santa Barbara Staff IPM Committee

Vote Tally _____ Disposition: Approved Denied/Reason _____

If approved, follow the attached best management practices.

Comments:

ADVION® INSECT GRANULE

Date: 4/2/2015
 Replaces: 11/1/2013

1. PRODUCT IDENTIFICATION

Product identifier on label: **ADVION® INSECT GRANULE**

Product No.: A20381A

Use: Insecticide

Manufacturer: Syngenta Crop Protection, LLC
 Post Office Box 18300
 Greensboro NC 27419

Manufacturer Phone: 1-800-334-9481

Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications: Not Applicable

Signal Word (OSHA): Not Applicable

Hazard Statements: Not Applicable

Hazard Symbols:

Precautionary Statements: Not Applicable

Other Hazard Statements: May form combustible dust concentrations in air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Other ingredients	Other ingredients	Trade Secret	99.78%
methyl (4aS)-7-chloro-2,5-dihydro-2- [[methoxycarbonyl]4- (trifluoromethoxy)phenyl]amino]carbonyl]in deno[1,2-e][1,3,4]oxadiazine-4a(3H)- carboxylate	Indoxacarb Technical	173584-44-6	0.22%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

ADVION® INSECT GRANULE

Date: 4/2/2015

Replaces: 11/1/2013

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Eye Contact: If in eyes: Rinse eyes with water. First aid measures are not normally required. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: First aid measures are not normally required. Wash material from the skin. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Most important symptoms/effects:

Not Applicable

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Avoid dust formation.

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

ADVION® INSECT GRANULE

Date: 4/2/2015
Replaces: 11/1/2013

Conditions for safe storage, including any incompatibilities:
Not Applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Other ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Indoxacarb Technical	Not Established	Not Established	1 mg/m ³ 8hr & 12hr TWA (respirable)	Manufacturer

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:

Where eye contact is likely use dust-proof chemical goggles.

Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:

A respirator is not normally required when handling this substance.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown granules

Odor: Slight

Odor Threshold: Not Available

pH: 6.6

Melting point/freezing point: Not Available

Initial boiling point and boiling range: Not Available

Flash Point (Test Method): Not Available

Flammable Limits (% in Air): Not Available

Flammability: Not Available

Vapor Pressure: Indoxacarb Technical Not Available

Vapor Density: Not Available

Relative Density: 0.696 g/ml (bulk density)

ADVION® INSECT GRANULE

Date: 4/2/2015
 Replaces: 11/1/2013

Solubility (ies): Indoxacarb Technical Not Available
 Partition coefficient: n-octanol/water: Not Available
 Autoignition Temperature: Not Available
 Decomposition Temperature: Not Available
 Viscosity: Not Available
 Other: None

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
 Chemical stability: Stable under normal use and storage conditions.
 Possibility of hazardous reactions: Will not occur.
 Conditions to Avoid: Not Available
 Incompatible materials: None known.
 Hazardous Decomposition Products: Not Available

11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Not Applicable

Delayed, immediate and chronic effects of exposure: Not Applicable

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:	Oral (LD50 Female Rat) :	> 5000 mg/kg body weight
Dermal:	Dermal (LD50 Rat) :	> 5000 mg/kg body weight
Inhalation:	Inhalation (LC50 Rat) :	> 5.5 mg/l 4 hrs (applies to technical dry material)
Eye Contact:	Non-Irritating (Rabbit)	
Skin Contact:	Non-Irritating (Rabbit)	
Skin Sensitization:	Animal test did not cause sensitization by skin contact. (Guinea Pig)	

Reproductive/Developmental Effects

Indoxacarb Technical: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
 Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

ADVION® INSECT GRANULE

Date: 4/2/2015
Replaces: 11/1/2013

Chronic/Subchronic Toxicity Studies

Indoxacarb Technical: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Inhalation; rat; Incoordination, mortality, red blood cell destruction causing abnormal decrease in number of red blood cells (anemia)

Carcinogenicity

Indoxacarb Technical: Animal testing did not show any carcinogenic effects.
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Did not cause genetic damage in animals.

Chemical Name	NTP/IARC/OSHA Carcinogen
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Other ingredients	No
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methyl (4aS)-7-chloro-2,5-dihydro-2- [[[(methoxycarbonyl)[4- (trifluoromethoxy)phenyl]amino]carbonyl]inden o[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate	No
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Other Toxicity Information

None

Toxicity of Other Components

Other ingredients
Not Applicable

Target Organs

Active Ingredients

Indoxacarb Technical: Nervous system

Inert Ingredients

Other ingredients: Not Applicable

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity

Indoxacarb Technical:

Fish (Rainbow Trout) 96-hour LC50 0.65 mg/l

Bird (Bobwhite Quail) LD50 Oral 98 mg/kg

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.60 mg/l

Environmental Fate

Indoxacarb Technical:

Information given is based on data on the components and the ecotoxicology of similar products.

Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

13. DISPOSAL CONSIDERATIONS

Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

ADVION® INSECT GRANULE

Date: 4/2/2015
 Replaces: 11/1/2013

Characteristic Waste: Not Applicable
 Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification
 Ground Transport - NAFTA
 Not regulated

Comments
 Water Transport - International
 Not regulated.

Air Transport
 Not regulated.

15. REGULATORY INFORMATION

Pesticide Registration:
 This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Avoid contact with skin, eyes, or clothing.

EPA Registration Number(s):
 100-1483

EPCRA SARA Title III Classification:
 Section 311/312 Hazard Classes: Acute Health Hazard
 Section 313 Toxic Chemicals: None

CERCLA/SARA 304 Reportable Quantity (RQ):
 Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261):
 Not Applicable

TSCA Status:
 Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
 Flammability: 1
 Instability: 0

HMIS Hazard Ratings

Health: 1
 Flammability: 1
 Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme
*	Chronic

Syngenta Hazard Category: A

ADVION® INSECT GRANULE

Date: 4/2/2015
Replaces: 11/1/2013

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 5/28/2013
Revision Date: 4/2/2015 Replaces: 11/1/2013
Section(s) Revised: 1-16

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

City of Santa Barbara
MATERIAL EXEMPTION REQUEST FOR PESTICIDE APPLICATION

Dept **Facilities** IPM Coordinator **Joe Gonzales** Phone **805-680-3413**

Pesticide Applicator (employee or company) Name **Lenz Pest Control** Phone **805-962-9151**

Application Site **Various** Specific Location **In and around structures.**

Date(s) **Various/As needed**

Product Name **Advion Roach Gel** Active Ingredient **Indoxacarb**

Number of Applications: One-time Other **Unknown/As needed**

Type: Emergency Trial **Programmatic.** Other _____

Product type: Herbicide **Insecticide** Fungicide Other

Application: Ornamental Turf Golf Vector Control Park Tree Street Tree

Right of Way Vertebrate pest Other **Structural Pest Control**

Is the pesticide on the *Tiered Materials List*? No **Yes** If yes, provide the Tier **Yellow**

If the pesticide is not on the *Tiered Materials List*, provide the following screening information. See the IPM Strategy and the *Tiered Materials List* for instructions on screening the pesticide.

EPA Reg # _____ Signal _____ Estimated Tier _____

Restricted No Yes/Describe _____

P Waste _____ PBT _____ WA PBT _____ Persistant _____ Mobil _____

Cancer _____ Repro _____ Neuro _____ Endocrine _____

Bird _____ Fish _____ Bees _____ Wildlife _____

Attach product label and MSDS to this form.

Describe the pest problem.

Continuous Roach problems inside or around a structure.

Describe the management goals and objectives for this site.

Elimination of Cockroach issues inside or around a structure.

What is the damage threshold for this pest at this site?

Interior issues that last longer than 1 week.

Describe the monitoring of the pest and potential predators that was conducted, and the control methods previously used at the site.

The City has a Cockroach Policy that is followed. See attached.

Describe how the product would be applied including frequency, concentration, and method of application.

Gel is applied to cracks and crevices and inside of bait stations.

What non-target impacts are anticipated?

N/A

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How does the use of this product help achieve the site management goals? Note if this is curative or preventative.

Can be curative. Ants and Roaches will return bait to the colonies. It will result in many more ants being killed. There is no preventative control available in the "City Ant Policy" or "City Cockroach Policy"

How will the effectiveness of this product be monitored? Include expected results and indicators of success.

The City Ant Policy will be followed. The City Cockroach Policy will be followed.

Describe site conditions, for example consider the following: restricted access, distance from a creek or body of water, degree of runoff, site is a pesticide-free zone, etc.

Structural Only

List alternatives considered, alternatives implemented and why they were eliminated.

Sanitation has been tried and proved ineffective.

Justification: describe why is applying this pesticide is the best solution and why a less-hazardous chemical, non-chemical option or taking no action is not feasible.

Ant and roach colonies will be affected by the bait. This should lessen the amount of pest control that is done by employees that are suffering with ongoing ant issues inside.

Was outside expertise utilized? No Yes / Describe Lenz Pest Control

Describe future plans to prevent using the chemical again.

No such plans exist.

Signatures _____
Department IPM Coordinator City IPM Coordinator

Completed by the City of Santa Barbara Staff IPM Committee

Vote Tally ____ Disposition: Approved Denied/Reason _____

If approved, follow the attached best management practices.

Comments:

ADVION® COCKROACH GEL BAIT

Date: 5/19/2017
 Replaces: 4/13/2017

1. PRODUCT IDENTIFICATION

Product identifier on label: **ADVION® COCKROACH GEL BAIT**

Product No.: A20379A

Use: Insecticide

Manufacturer: Syngenta Crop Protection, LLC
 Post Office Box 18300
 Greensboro NC 27419

Manufacturer Phone: 1-800-334-9481

Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications: Skin Sensitizer: Category 1B

Signal Word (OSHA): Warning

Hazard Statements: May cause an allergic skin reaction

Hazard Symbols:



Precautionary Statements: Avoid breathing mist, vapors, spray.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves, protective clothing, eye protection.
 If on skin: Wash with plenty of soap and water.
 See Section 4 First Aid Measures.
 If skin irritation or rash occurs: Get medical advice.
 Wash contaminated clothing before reuse.
 Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Other inert ingredients	Other inert ingredients	Trade Secret	99.4%

ADVION® COCKROACH GEL BAIT

Date: 5/19/2017
Replaces: 4/13/2017

methyl (4aS)-7-chloro-2,5-dihydro-2- [[methoxycarbonyl]4- (trifluoromethoxy)phenyl]amino]carbonyl]in deno[1,2-e][1,3,4]oxadiazine-4a(3H)- carboxylate	Indoxacarb Technical	173584-44-6	0.6%
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Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Eye Contact: If in eyes: Rinse eyes with water. First aid measures are not normally required. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: First aid measures are not normally required. Wash material from the skin. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Most important symptoms/effects:

Allergic skin reaction

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g.

ADVION® COCKROACH GEL BAIT

Date: 5/19/2017
 Replaces: 4/13/2017

commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

Not Applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Other inert ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Indoxacarb Technical	Not Established	Not Established	1 mg/m ³ 8hr & 12hr TWA (respirable)	Manufacturer

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:

Where eye contact is likely use dust-proof chemical goggles.

Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:

A respirator is not normally required when handling this substance.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow gel

Odor: None

Odor Threshold: Not Available

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 Replaces: 4/13/2017

pH: 6.08
 Melting point/freezing point: Not Available
 Initial boiling point and boiling range: Not Available
 Flash Point (Test Method): Not Available
 Flammable Limits (% in Air): Not Available
 Flammability: Not Available
 Vapor Pressure: Indoxacarb Technical Not Available
 Vapor Density: Not Available
 Relative Density: 1.0755 g/ml @ 68°F (20°C)
 Solubility (ies): Indoxacarb Technical Not Available
 Partition coefficient: n-octanol/water: Not Available
 Autoignition Temperature: Not Available
 Decomposition Temperature: Not Available
 Viscosity: Not Available
 Other: Not Available

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
 Chemical stability: Stable under normal use and storage conditions.
 Possibility of hazardous reactions: Will not occur.
 Conditions to Avoid: None known
 Incompatible materials: None known.
 Hazardous Decomposition Products: Not Available

11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Rash, redness or itching

Delayed, immediate and chronic effects of exposure: Allergic skin reaction

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:	Oral (LD50 Rat) :	> 5000 mg/kg body weight
Dermal:	Dermal (LD50 Rat) :	> 5000 mg/kg body weight
Inhalation:	Inhalation (LC50 Female Rat) :	> 5.5 mg/l air - 4 hours
Eye Contact:	Non-Irritating (Rabbit)	

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 Replaces: 4/13/2017

Skin Contact: Non-Irritating (Rabbit)
 Skin Sensitization: A skin sensitizer (Guinea Pig)

Reproductive/Developmental Effects

Indoxacarb Technical: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
 Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Chronic/Subchronic Toxicity Studies

Indoxacarb Technical: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
 Inhalation; rat; Incoordination, mortality, red blood cell destruction causing abnormal decrease in number of red blood cells (anemia)

Carcinogenicity

Indoxacarb Technical: Animal testing did not show any carcinogenic effects.
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
 Did not cause genetic damage in animals.

Chemical Name	NTP/IARC/OSHA Carcinogen
Other inert ingredients	No
methyl (4aS)-7-chloro-2,5-dihydro-2- [[[(methoxycarbonyl)[4- (trifluoromethoxy)phenyl]amino]carbonyl]inden o[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate	No

Other Toxicity Information

None

Toxicity of Other Components

Other inert ingredients
 Not Applicable

Target Organs

Active Ingredients

Indoxacarb Technical: Nervous system

Inert Ingredients

Other inert ingredients: Not Applicable

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity

Indoxacarb Technical:
 Fish (Rainbow Trout) 96-hour LC50 0.65 mg/l
 Bird (Bobwhite Quail) LD50 Oral 98 mg/kg
 Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.60 mg/l

Environmental Fate

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Indoxacarb Technical:

Information given is based on data on the components and the ecotoxicology of similar products.

Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

13. DISPOSAL CONSIDERATIONS

Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification

Ground Transport - NAFTA

Not regulated

Comments

Water Transport - International

Not regulated

Air Transport

Not regulated

15. REGULATORY INFORMATION

Pesticide Registration:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

EPA Registration Number(s):

100-1484

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: None

CERCLA/SARA 304 Reportable Quantity (RQ):

Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

TSCA Status:

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Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 2
Flammability: 1
Instability: 0

HMIS Hazard Ratings

Health: 2
Flammability: 1
Physical Hazard: 0

Syngenta Hazard Category: C,S

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme
*	Chronic

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 2/25/2013
Revision Date: 5/19/2017
Section(s) Revised: 2,4,11,16

Replaces: 4/13/2017

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

City of Santa Barbara
MATERIAL EXEMPTION REQUEST FOR PESTICIDE APPLICATION

Dept **Facilities** IPM Coordinator **Joe Gonzales** Phone **805-680-3413**

Pesticide Applicator (employee or company) Name **Lenz Pest Control** Phone **805-962-9151**

Application Site **Various** Specific Location **In and around structures.**

Date(s) **Various/As needed**

Product Name **Advion Spray** Active Ingredient **Indoxacarb**

Number of Applications: One-time Other **Unknown/As needed**

Type: Emergency Trial **Programmatic** Other _____

Product type: Herbicide **Insecticide** Fungicide Other

Application: Ornamental Turf Golf Vector Control Park Tree Street Tree

Right of Way Vertebrate pest Other **Structural Pest Control**

Is the pesticide on the *Tiered Materials List*? No **Yes** If yes, provide the Tier **Yellow**

If the pesticide is not on the *Tiered Materials List*, provide the following screening information. See the IPM Strategy and the *Tiered Materials List* for instructions on screening the pesticide.

EPA Reg # _____ Signal _____ Estimated Tier _____

Restricted No Yes/Describe _____

P Waste _____ PBT _____ WA PBT _____ Persistent _____ Mobil _____

Cancer _____ Repro _____ Neuro _____ Endocrine _____

Bird _____ Fish _____ Bees _____ Wildlife _____

Attach product label and MSDS to this form.

Describe the pest problem.

Continuous Roach and Ant problems inside or around a structure.

Describe the management goals and objectives for this site.

Elimination of Ant and Cockroach issues inside or around a structure.

What is the damage threshold for this pest at this site?

Interior issues that last longer than 1 week.

Describe the monitoring of the pest and potential predators that was conducted, and the control methods previously used at the site.

The City has a Cockroach Policy that is followed. The City has an Ant Policy that is followed. See attached.

Describe how the product would be applied including frequency, concentration, and method of application.

Spray is applied to the perimeter of the structure and to visible ant trails.

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What non-target impacts are anticipated?

Other ground crawling insects such as Crickets and Earwigs.

How does the use of this product help achieve the site management goals? Note if this is curative or preventative.

Can be curative. Ants and Roaches will return the spray to the colonies. It will result in many more ants being killed. There is no preventative control available in the "City Ant Policy" or "City Cockroach Policy"

How will the effectiveness of this product be monitored? Include expected results and indicators of success.

The City Ant Policy will be followed. The City Cockroach Policy will be followed.

Describe site conditions, for example consider the following: restricted access, distance from a creek or body of water, degree of runoff, site is a pesticide-free zone, etc.

Structural Only

List alternatives considered, alternatives implemented and why they were eliminated.

Sanitation has been tried and proved ineffective.

Justification: describe why is applying this pesticide is the best solution and why a less-hazardous chemical, non-chemical option or taking no action is not feasible.

Ant and roach colonies will be affected by the spray. This should lessen the amount of pest control that is done by employees that are suffering with ongoing ant issues inside.

Was outside expertise utilized? No Yes / Describe Lenz Pest Control

Describe future plans to prevent using the chemical again.

No such plans exist.

Signatures _____

Department IPM Coordinator

City IPM Coordinator

Completed by the City of Santa Barbara Staff IPM Committee

Vote Tally _____ Disposition: Approved Denied/Reason _____

If approved, follow the attached best management practices.

Comments:

ADVION WDG

Version 2.0 Revision Date: 01/29/2020 SDS Number: S00036494899 This version replaces all previous versions.

SECTION 1. IDENTIFICATION

Product name : ADVION WDG
Design code. : A20382A

Product Registration number : 100-1501

Manufacturer or supplier's details

Company name of supplier : Syngenta Crop Protection, LLC
Address : Post Office Box 18300
Greensboro NC 27419
United States of America (USA)

Telephone : 1 800 334 9481
Telefax : 1 336 632 2192
Emergency telephone : 1 800 888 8372

Recommended use of the chemical and restrictions on use

Recommended use : Insecticide

Restrictions on use : General Use Pesticide

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with 29 CFR 1910.1200**

Acute toxicity (Oral) : Category 4

Carcinogenicity : Category 1A

Specific target organ toxicity : Category 1 (Blood, Heart, Nervous system)
- repeated exposure

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.
H350 May cause cancer.
H372 Causes damage to organs (Blood, Heart, Nervous system) through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.

ADVION WDG

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P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
indoxacarb	173584-44-6	20
kaolin	1332-58-7	>= 5 - < 10
sucrose, pure	57-50-1	>= 1 - < 5
titanium dioxide	13463-67-7	>= 0.1 - < 1
dioxosilane	14808-60-7	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
- If inhaled : Take the victim into fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a physician or poison control center immediately.
- In case of skin contact : Take off all contaminated clothing immediately.
Wash off immediately with plenty of water.
If skin irritation persists, call a physician.
Wash contaminated clothing before re-use.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses.
Immediate medical attention is required.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting.

ADVION WDG

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Most important symptoms and effects, both acute and delayed : Nonspecific
No symptoms known or expected.

Notes to physician : There is no specific antidote available.
Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Extinguishing media - small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires
Alcohol-resistant foam
or
Water spray

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during fire fighting : As the product contains combustible organic ingredients, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
Exposure to decomposition products may be a hazard to health.

Further information : Do not allow run-off from fire fighting to enter drains or water courses.
Cool closed containers exposed to fire with water spray.

Special protective equipment for fire-fighters : Wear full protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
Avoid dust formation.

Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).
Do not create a powder cloud by using a brush or compressed air.
Clean contaminated surface thoroughly.
Clean with detergents. Avoid solvents.
Retain and dispose of contaminated wash water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : No special protective measures against fire required.
Avoid contact with skin and eyes.
When using do not eat, drink or smoke.
For personal protection see section 8.

Conditions for safe storage : No special storage conditions required.

ADVION WDG

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Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep out of the reach of children.
Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
indoxacarb	173584-44-6	TWA	1 mg/m ³ (Respirable dust)	Supplier
kaolin	1332-58-7	TWA (Respirable fraction)	2 mg/m ³	ACGIH
		TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1
sucrose, pure	57-50-1	TWA	10 mg/m ³	ACGIH
		TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1
titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA	10 mg/m ³ (Titanium dioxide)	ACGIH
dioxosilane	14808-60-7	TWA (respirable)	10 mg/m ³ / %SiO ₂ +2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO ₂ +5	OSHA Z-3
		TWA (Respirable fraction)	0.025 mg/m ³ (Silica)	ACGIH
		TWA (Respirable dust)	0.05 mg/m ³ (Silica)	NIOSH REL
		TWA (Respirable dust)	0.05 mg/m ³	OSHA Z-1

Engineering measures : THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

ADVION WDG

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Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.

Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Respiratory protection : Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The breakthrough time depends amongst other things from the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : No special protective equipment required.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Remove and wash contaminated clothing before re-use.

Wear as appropriate:

Dust impervious protective suit

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.

When selecting personal protective equipment, seek appropriate professional advice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

Color : No data available

Odor : slight

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Odor Threshold	:	No data available
pH	:	8.1 - 9.1
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Solubility(ies) Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No decomposition if used as directed.
Incompatible materials	:	None known.
Hazardous decomposition products	:	No hazardous decomposition products are known.

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SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Ingestion
Inhalation
Skin contact
Eye contact

Acute toxicity**Product:**

Acute oral toxicity : LD50 (Rat, female): 1,972 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The component/mixture is minimally toxic after short term inhalation., The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Components:**indoxacarb:**

Acute oral toxicity : LD50 (Rat, female): 179 - 268 mg/kg

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

Skin corrosion/irritation**Product:**

Species : Rabbit
Result : No skin irritation

Serious eye damage/eye irritation**Product:**

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitization**Product:**

Test Type : mouse lymphoma cells
Species : Mouse
Result : Did not cause sensitization on laboratory animals.

ADVION WDG

Version 2.0 Revision Date: 01/29/2020 SDS Number: S00036494899 This version replaces all previous versions.

Components:**indoxacarb:**

Result : The product is a skin sensitizer, sub-category 1B.

Germ cell mutagenicity**Components:****indoxacarb:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity**Components:****indoxacarb:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

Reproductive toxicity**Components:****indoxacarb:**

Reproductive toxicity - Assessment : No toxicity to reproduction

STOT-repeated exposure**Components:****indoxacarb:**

Target Organs : Blood, Heart, Nervous system
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

dioxosilane:

Routes of exposure : Inhalation
Target Organs : Lungs
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****indoxacarb:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.65 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.6 mg/l

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aquatic invertebrates	Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Lemna gibba (gibbous duckweed)): > 84.3 mg/l Exposure time: 14 d
Toxicity to fish (Chronic toxicity)	: NOEC (Oncorhynchus mykiss (rainbow trout)): 0.15 mg/l Exposure time: 90 zd
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 0.09 mg/l Exposure time: 21 zd
titanium dioxide:	
Toxicity to algae/aquatic plants	: EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l Exposure time: 72 h

Ecotoxicology Assessment

Acute aquatic toxicity	: This product has no known ecotoxicological effects.
Chronic aquatic toxicity	: This product has no known ecotoxicological effects.

Persistence and degradability

Components:

indoxacarb:

Biodegradability	: Result: Not readily biodegradable.
------------------	--------------------------------------

Bioaccumulative potential

Components:

indoxacarb:

Bioaccumulation	: Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 950.3 Exposure time: 21 zd
-----------------	-------------------------------------------------------------------------------------------------------------------

Mobility in soil

Components:

indoxacarb:

Distribution among environmental compartments	: Remarks: No data available
-----------------------------------------------	------------------------------

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer.
---------------------	--------------------------------------------------------------------------------------------------------------------------

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Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.
Triple rinse containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (INDOXACARB)
Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3077
Proper shipping name : Environmentally hazardous substance, solid, n.o.s. (INDOXACARB)
Class : 9
Packing group : III
Labels : Class 9 - Miscellaneous dangerous substances and articles
Packing instruction (cargo aircraft) : 956
Packing instruction (passenger aircraft) : 956
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (INDOXACARB)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

Remarks : Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

ADVION WDG

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Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution

Harmful if swallowed.

Causes moderate eye irritation.

Harmful if absorbed through skin.

Avoid contact with skin, eyes or clothing.

Wash thoroughly with soap and water after handling.

Harmful if inhaled.

Avoid breathing dust.

Avoid breathing spray mist.

Avoid breathing vapors.

Remove and wash contaminated clothing before re-use.

EPCRA - Emergency Planning and Community Right-to-Know
CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
Carcinogenicity
Specific target organ toxicity (single or repeated exposure)

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

The ingredients of this product are reported in the following inventories:

TSCA : On the inventory, or in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

ADVION WDG

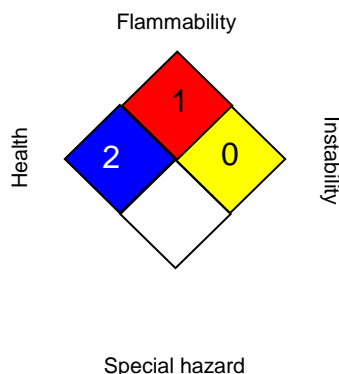
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SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable

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Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 01/29/2020

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8

City of Santa Barbara
MATERIAL EXEMPTION REQUEST FOR PESTICIDE APPLICATION

Dept **Facilities** IPM Coordinator **Joe Gonzales** Phone **805-680-3413**

Pesticide Applicator (employee or company) Name **Lenz Pest Control** Phone **805-962-9151**

Application Site **Various** Specific Location **In and around structures.**

Date(s) **Various/As needed Between July 2022 and August 2023**

Product Name **Navigator** Active Ingredient **Fipronil**

Number of Applications: One-time Other **Unknown/As needed**

Type: Emergency Trial **Programmatic.** Other _____

Product type: Herbicide **Insecticide** Fungicide Other

Application: Ornamental Turf Golf Vector Control Park Tree Street Tree

Right of Way Vertebrate pest Other **Structural Pest Control**

Is the pesticide on the *Tiered Materials List*? No **Yes** If yes, provide the Tier **Yellow**

If the pesticide is not on the *Tiered Materials List*, provide the following screening information. See the IPM Strategy and the *Tiered Materials List* for instructions on screening the pesticide.

EPA Reg # _____ Signal _____ Estimated Tier _____

Restricted No Yes/Describe _____

P Waste _____ PBT _____ WA PBT _____ Persistant _____ Mobil _____

Cancer _____ Repro _____ Neuro _____ Endocrine _____

Bird _____ Fish _____ Bees _____ Wildlife _____

Attach product label and MSDS to this form.

Describe the pest problem.

Continuous Ant problems inside or around a structure.

Describe the management goals and objectives for this site.

Elimination of Ant issues inside or around a structure.

What is the damage threshold for this pest at this site?

Interior issues that last longer than 1 week.

Describe the monitoring of the pest and potential predators that was conducted, and the control methods previously used at the site.

The City has an Ant Policy that is followed. See attached.

Describe how the product would be applied including frequency, concentration, and method of application.

Spray is applied to the perimeter of the structure.

City of Santa Barbara
MATERIAL EXEMPTION REQUEST FOR PESTICIDE APPLICATION

What non-target impacts are anticipated?

Other ground crawling insects such as Crickets and Earwigs.

How does the use of this product help achieve the site management goals? Note if this is curative or preventative.

Can be curative. Ants will return the spray to the colonies. It will result in many more ants being killed. There is no preventative control available in the "City Ant Policy" or "City Cockroach Policy"

How will the effectiveness of this product be monitored? Include expected results and indicators of success.

The City Ant Policy will be followed.

Describe site conditions, for example consider the following: restricted access, distance from a creek or body of water, degree of runoff, site is a pesticide-free zone, etc.

Structural Only

List alternatives considered, alternatives implemented and why they were eliminated.

Sanitation has been tried and proved ineffective. Indoxacarb has been used and has proven ineffective.

Justification: describe why is applying this pesticide is the best solution and why a less-hazardous chemical, non-chemical option or taking no action is not feasible.

Ant colonies will be affected by the spray. This should lessen the amount of pest control that is done by employees that are suffering with ongoing ant issues inside.

Was outside expertise utilized? No Yes / Describe Lenz Pest Control

Describe future plans to prevent using the chemical again.

No such plans exist.

Signatures _____
Department IPM Coordinator City IPM Coordinator

Completed by the City of Santa Barbara Staff IPM Committee

Vote Tally _____ Disposition: Approved Denied/Reason _____

If approved, follow the attached best management practices.

Comments:



Gharda Chemicals Limited

SAFETY DATA SHEET NAVIGATOR® SC Termiticide/Insecticide

1 Identification of the substance/mixture and of the company/undertaking

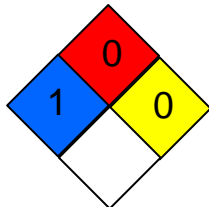
Date: 04/20/16	CAS Number	EINECS Number	EPA Registration Number
Insecticide Formulation	120068-37-3	424-610-5	84836-18-33658
Regional Office:	Gharda Chemicals Limited 660 Newtown-Yardley Road Newtown, PA 18940 Phone: 1-215-968-9474 Fax: 1-215-968-9574		
Emergency Telephone Numbers	For Spills Call:	CHEMTREC: 1-800-424-9300	
	For Medical Call:	ProPharma: 1-866-359-5660	
E-mail: sramanathan@gharda.com			

2 Hazards identification

Classification of Substance or Mixture

EMERGENCY OVERVIEW

EPA SIGNAL WORD: CAUTION



Acute Tox. 4 Oral

GHS08 H302 Harmful if swallowed.



GHS09 H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Aquatic Chronic 1



N
Dangerous for the Environment

R 51-53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Information concerning particular hazards for human and environment: Not applicable

Label elements

Hazard pictograms



GHS08 GHS09

Signal Word

Caution

Hazard determining component of labelling:

Hazard statements

H302 Harmful if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves, protective clothing, eye and face protection.
P261 Avoid breathing dust, fumes, gas, mist, vapours, spray.
P264 Wash thoroughly after handling.
P270 DO NOT eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P301+P310 IF SWALLOWED: Immediately Call a POISON CENTER or doctor/physician.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P311 Call a POISON CENTER or doctor/physician.
P321 Specific treatment (see.... on this label)
P330 Rinse mouth.
P391 Collect spillage.
P403/233 Store in well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local, regional, national, international regulations.

3 Composition/information on ingredients

Chemical characterization:

DESCRIPTION	CAS No.	EINECS Number	w/w %
Fipronil	120068-37-3	424-610-5	
5-amino-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-4-((1,R,S)- (trifluoromethyl)sulfinyl)-1-H-pyrazole-3-carbonitril			9.10
Other ingredients	-----	-----	90.90

4 First aid measures

IF Swallowed: Call poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. DO NOT give any liquid to the person. DO NOT induce vomiting unless told to do so by the poison control center or doctor.

If Inhaled: Remove 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.

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 further treatment advice.

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.

Note to Physician: There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred. In severe cases of overexposure by oral ingestion, lethargy, muscle tremors, and in extreme cases, possibly convulsions may occur.

5 Firefighting measures

FIRE

Small Fire: Dry chemical, CO₂ or water spray.

Large Fire: Water spray, fog or regular foam.

Move containers from fire area if you can do it without risk.

Dike fire-control water for later disposal; DO NOT scatter the material.

Use water spray or fog; DO NOT use straight streams.

Fire involving Tanks or Car/Trailer Loads:

Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.

DO NOT get water inside containers.

Cool containers with flooding quantities of water until well after fire is out.

Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

ALWAYS stay away from tanks engulfed in fire.

For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

FIRE OR EXPLOSION

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Containers may explode when heated.

Runoff may pollute waterways.

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

6 Accidental release measures

For immediate precautionary measures, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids.

Keep unauthorized personnel away.
Stay upwind.
Keep out of low areas.

SPILLS: For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Soak up spilled material with sand, earth or other suitable material and dispose of as pesticide waste. Take special care to avoid contamination of equipment and facilities during clean up procedures and disposal of wastes. Refer to Precautionary Statements on label for hazards associated with the handling of this material. DO NOT walk through spilled material. In spill or leak incidents, keep unauthorized people away. **You may contact the CHEMTREC Emergency Response for decontamination procedures.**

For Chemical Spill, Leak, Fire, Exposure, or Accident you may call CHEMTREC at 1-800-424-9300 twenty-four (24) hours per day, seven (7) days per week.

7 Handling and storage

Handling - information for safe handling:

Keep away from food, drink and animal foodstuff.

Avoid contact with skin and eyes.

Ensure good ventilated, exhaustion at the workplace.

Keep away from heat and direct sunlight. Store in cool, dry place in tightly closed receptacle.

All pesticide handlers (mixers, loaders, and applicators) must wear long-sleeved shirt and long pants, socks, shoes and chemical resistant gloves. All pesticide handlers must wear a dust/mist filtering respirator (NSHA/NIOSH approval number prefix TC-21C), or, a NIOSH approved respirator with any N R P or HE filter when working in a non-ventilated space including, but not limited to, crawl-spaces and basements. All pesticide handlers must wear protective eyewear (goggles, a face shield or safety glasses with front brow and temple protection) when working in a non-ventilated space, including but not limited to crawl-spaces and basements or when applying termiticide by rodding or sub-slab injection.

Information about fire and explosion protection:

Protect against electrostatic charges.

Requirement to be met by storerooms and receptacles: Store in the original receptacles.

Unused product should be stored in its original container only, out of the reach of children and animals.

Information about storage in one common storage facility:

DO NOT store together with foodstuffs, beverages and feed.

DO NOT contaminate water, food, or feed by storage or disposal.

Further information about storage conditions:

Store in cool, dry conditions in well-sealed receptacles.
Protect from heat and direct sunlight.
Store receptacles in well ventilated area.

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see Section 7 Control Parameters.

Ingredients with limit values that require monitoring at the work place: Not required.

Exposure Controls:

All pesticide handlers (mixers, loaders, and applicators) must wear long-sleeved shirt and long pants, socks, shoes and chemical resistant gloves. All pesticide handlers must wear a dust/mist filtering respirator (NSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N R P or HE filter when working in a non-ventilated space including, but not limited to, crawl-spaces and basements. All pesticide handlers must wear protective eyewear (goggles, a face shield or safety glasses with front brow and temple protection) when working in a non-ventilated space, including but not limited to crawl-spaces and basements or when applying termiticide by rodding or sub-slab injection.

General Protective and Hygienic Measure:

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuff, beverages and feed.
Wash hands before breaks and at the end of the work.
Immediately remove all spoiled and contaminated clothing.
DO NOT eat, drink, smoke or sniff while working.
DO NOT inhale vapour.

Respiratory Protection

Respiratory single serving mask DIN EN 149 with filter FFP2

Protection for Hands

Protective Gloves: The glove material has to be impermeable and resistant to the product, the substance, and the preparation.

Material of Gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Choose chemical resistant gloves. Recommendations are gloves made of Nitrile Rubber (NBR, ≥ 0.38 mm thickness) Polyvinyl chloride (PVC, ≥ 0.7 mm thickness).

Eye Protection



Tightly sealed goggles

Wear goggles conforming to EN 166 (Field of use 5 or equivalent).

Body Protection

Protective clothing (EN 368, cat. 3, type:3+4+5+6)

Wear standard coverall and type 5 suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

Hygiene Measures

When using, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

Protective Measures

Avoid contact with skin and eyes.

9 Physical and chemical properties

Information on basic physical and chemical properties.

General Information

Appearance

Form:

Suspension

Color:

Cream color to faint brown

Odor:

Odorless

pH

Slightly acidic

Melting point:

Not applicable

Boiling point:

100° C

Flash point:

>80° C

Flammability (solid, gaseous):

Product is not flammable

Evaporation rate

Not determined

Upper/Lower flammability or explosive limit

Non explosive

Vapour pressure

Relative density at 22°C

1.00 to 1.050 g/cm³ at 22° C

Solubility in/miscibility with water at 20 °C

1.9 mg/L in distilled water

(for Fipronil)

Solubility in organic solvents at 20 °C

Acetone 545, dichloromethane 22, Hexane 0.028, toluene 3 (all in g/l, 25° C).

(for Fipronil Technical)

Partition coefficient: n-octanol/ water

Not determined

Auto-ignition temperature

Not determined

Decomposition temperature

Not determined

Viscosity

Approx. 3000-6000 cp at 1.5 rpm Brookfield spindle no.2, at 30° C

Molecular Formula

C₁₂H₄Cl₂F₆N₄OS

Molecular Weight

437.2

10 Stability and reactivity

Reactivity

Chemical stability

Thermal Decomposition/Conditions to Avoid

No decomposition if used according to specifications.

Possibility of Hazardous Reaction.

No possibility of any hazardous reaction.

Incompatible Materials

Strong bases, strong acids and strong oxidizing agents.

Hazardous Decomposition Product

May emit toxic fumes under fire conditions.

11 Toxicological information

Information on Toxicological Effects

LD/LC50 Values Relevant for Classification

Oral	LD50	1909 mg/kg (rat)
Dermal	LD50	>5050 mg/kg (rat)
Inhalation	LC50 / 4h	>2.07 mg/L
Skin irritation	Non irritant	
Serious eye damage/irritation	Non irritant	
Respiratory or skin Sensitization	Non sensitizer	
Germ cell Mutagenicity	Non mutagenic	
Carcinogenicity	Non carcinogenic	
STOT - single exposure	Data is not available	
STOT - repeated exposure	Data is not available	
Aspiration	Data is not available	
Route of exposure: ingestion	Oral, inhalation	

12 Ecological information

Toxicity

Aquatic Toxicity	
Daphnia LC 50/ 48 h	>380 µg/L
Bluegill Sunfish LC ₅₀ / 96 h	170 µg/L
Rainbow Trout LC ₅₀ / 96 h	500 µg/L
Birds LD50	Pigeon >2000 mg/kg
Algae EC 50 Scenedesmus Subscpicatus (96 hours)	0.14 mg/l
Bee LD50	
Earthworm LD50 (14 day)	Non Toxic

Persistence and Degradability

Not Easily Biodegradable

Additional Ecological Information

General notes - GHS Classification Category 1

Very toxic to water organism.

DO NOT allow product to reach ground water, water course or sewage system, even in small quantities.

Result of PBT and vPvB Assessment

PBT:

If released to air, a vapor pressure of 2.78×10^{-9} mm Hg at 25 deg. C indicates Fipronil will exist solely in the particulate phase in the atmosphere. Particulate phase Fipronil will be removed from the atmosphere by wet or dry deposition. Fipronil contains chromophores that absorb at wavelengths >290 nm and, therefore, may be susceptible to direct photolysis by sunlight. If released to soil, Fipronil is expected to have low to no mobility based upon Koc values of 825 to 6863. Photolytic half-lives in soil for Fipronil were reported as 147 to 217 hours. Fipronil is expected to biodegrade in soil and water based upon studies showing estimated degradation half-lives of 25.1 to 91.2 days in three sediments under aerobic conditions and 4.6 to 18.5 days for the same sediments under anaerobic conditions. If released into water, Fipronil is expected to adsorb to suspended solids and sediment based upon the Koc values. A whole body BCF of 321 in Bluegill suggests bio-concentration in aquatic organisms is high. Fipronil is stable to hydrolysis at pH 5.5 and pH 7, but has a hydrolysis half-life of 28 days at pH 9. An aqueous photolytic half-life for Fipronil was reported as 4.1 hours.

vPvB: Not Applicable

Environmental hazards.

This pesticide is toxic to birds, fish, and aquatic invertebrates. DO NOT apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighbouring areas. Care must be taken to avoid runoff. DO NOT contaminate water by cleaning equipment or disposal of wastes. DO NOT contaminate water when disposing of equipment, washwaters, or rinsate.

13 Disposal considerations

Waste Treatment Methods - Recommendation:

Must not be disposed together with household garbage. DO NOT allow product to reach sewage system. Must be specially treated adhering to official regulations.

Uncleaned Packaging – Recommendations:

Disposal must be made according to official regulations. DO NOT reuse empty containers, packages.

PESTICIDE DISPOSAL

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

14 Transport information

Land Transport ADR/RID (cross-border)



ADR/RID Class:	9
Danger Code (Kemler):	660
UN-Number:	3082
Packaging Group:	III
Special Marking:	Symbol (fish and tree)
UN Proper Shipping Name:	Environmentally hazardous substance, liquid, N.O.S. (Fipronil)

Maritime Transport IMDG:



IMDG Class:	9
UN-Number:	3082
Packaging Group:	III
EMS Number:	F-A, S-A
Marine Pollutant:	Yes, Symbol (fish & tree)
Proper Shipping Name:	Environmentally hazardous substance, liquid, N.O.S. (Fipronil)

Air Transport ICAO-TI and IATA-DGR:



IMDG Class:	9
UN-Number:	3082
Packaging Group:	III
EMS Number:	F-A, S-A
Marine Pollutant:	Yes, Symbol (fish & tree)
Proper Shipping Name:	Environmentally hazardous substance, liquid, N.O.S. (Fipronil)

15 Regulatory information

DO NOT use this product for termite or other pest control indoors except for label-specified applications for termite control and foam applications to wall voids for control other listed pests.

DO NOT use on golf course turf. May be used for control of termites and other listed pests found on/near structures associated with golf courses, but only as specified on this label.

DO NOT use on/in commercial bee hives.

DO NOT use on animal trophies or animal skins.

Safety, health and environmental regulations/legislation specific for the substance or mixture.

National Regulations: Follow USEPA FIFRA

Risk and Safety Phrases.

R 20/21	Harmful by inhalation and in contact with skin.
R23	Toxic by inhalation.
R36	Irritating to eyes.
R 51-53	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
R57	Toxic to bees.
S2	Keep out of reach of children.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S43	In case of fire use water spray and foam. DO NOT use water jet.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer special instructions/safety data sheet.

Other Regulation, Limitations, and Prohibitive Regulations

In order to avoid risk for man and environment, keep to the user's instruction. Avoid any unnecessary contact with the product. Any misuse may cause health problems.

Chemical Safety Assessment: A chemical safety assessment has not been carried out.

16 Other information

Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, expressed or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities comply with federal, state, and local laws and regulations.

Department Issuing SDS: Supply Chain

Contact: sramanathan@gharda.com
Gharda Chemicals Limited
660 Newtown-Yardley Road
Newtown, PA 18940
215-968-9474

Abbreviations and acronyms:

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association (IATA)
ICAO:	International Civil Aviation Organization
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
LC50:	Lethal Concentration, 50 percent
LD50:	Lethal Dose, 50 percent

Lenz Pest Control

City of Santa Barbara Ant Control Policy

Upon request by the City of Santa Barbara for Ant control the following steps must apply.

Threshold Levels for Ants are: Interior problems with ants that last longer than 1 week. It is assumed that these problems will have already lasted this long before Lenz is called to deal with the problem.

1. First Visit: Inspect and identify the degree of the ant infestation and identify any areas that could require sanitization. Advion Ant Gel can be used at this time. Re-inspect in one week to determine if further action must be taken. This service will require approximately 30 – 60 minutes
2. Second Visit: Re-inspect to determine any decrease in ant problems. If ant problems are under control, then no further treatment would be needed at that time. Advion Ant Gel can be used at this time. If problems persist, post notices on building and schedule an exterior Indoxacarb treatment. Re-inspection and posting will require 30 – 60 minutes.
3. Third Visit: Perform a pesticide treatment using Advion Spray and Granules. Follow all label directions. The time and cost of this treatment varies with the size of the structure treated. Technician must stay on property until the product has dried to direct any persons arriving of the precautions. This takes approximately 1 hour after the treatment is done. Re-inspect in one week to determine if further action must be taken. Products used will be Advion Ant Gel and Advion Granules and Advion Spray. The active ingredient is Indoxacarb.
4. Fourth Visit: Re-inspect to determine any decrease in ant problems. If ant problems are under control, then no further treatment would be needed at that time. If problems persist, inform city contact that a Fipronil treatment would be required. Re-inspection will require 30 minutes. Post Notices for Navigator Treatment.
5. Fifth Visit: Treat Perimeter of structure with Navigator. This must be scheduled during a time when the public will not be accessing the structure. The time and cost of this treatment varies with the size of the structure treated. Technician must stay on property until the product has dried to direct any persons arriving of the precautions. This takes approximately 1 hour after the treatment is done. Re-inspect in one week to determine if further action must be taken.
6. Sixth Visit: Re-inspect to determine if the Navigator Treatment was successful. Report to City Contact Person.

Questions? Call me at 805- 962- 9151
Dale Shreve

Lenz Pest Control

City of Santa Barbara

Cockroach Control Policy

Upon request by the City of Santa Barbara for Cockroach control the following steps must apply.

Threshold Levels for Cockroaches are: Interior problems with Cockroaches that last longer than 1 week. It is assumed that these problems will have already lasted this long before Lenz is called to deal with the problem.

1. First Visit: Inspection of infested areas. Locate possible food/water sources and report. Install covered glue traps with Cockroach Attractant in areas to monitor activity.
2. Second Visit: Wait one week and check monitors and count roaches caught. Replace used Glue Boards
3. Third Visit: Wait one week and check monitors and count roaches caught. Replace used Glue Boards

(If there are less roaches than the prior week, the glue traps are working and should be continued. This is the pesticide free option)

(If there are more roaches than the prior week, the glue traps are not working. Perform a Advion Cockroach Gel treatment.

4. Fourth Visit: Wait three days from posting notices. Treat with Advion Roach Gel and Bait Stations.
5. Fifth Visit: Wait one week and do another inspection.

(If there are no living roaches, then the job is over)

(If there are still roaches, post notices and use Advion Granules or Spray as needed.)

If all Advion Products are not working, report to Joe Gonzales with other options.

Call Joe Gonzales if an emergency exemption is needed.

Questions? Call me at 805- 962- 9151

Dale Shreve