

**ADVION COCKROACH GEL INSECTICIDE**

Version 5.0      Revision Date: 21.04.2025      SDS Number: S00078648716      Date of last issue: -  
Date of first issue: 21.04.2025

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**Section 1: Identification**

Product name : ADVION COCKROACH GEL INSECTICIDE

Design code : A20379B

**Manufacturer or supplier's details**

Company : Syngenta Crop Protection Limited

Address : Level 4, 60 Parnell Road, Parnell  
Auckland  
New Zealand

Telephone : 09 306 1500 (weekdays)

Emergency telephone number : 0800 POISON (0800 764766) (National Poisons & Hazchem  
Information Centre)  
0800 734 607(Syngenta - 24 hours)

Telefax : None

**Recommended use of the chemical and restrictions on use**

Recommended use : Insecticide

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**Section 2: Hazard identification****GHS Classification**

Specific target organ toxicity - repeated exposure : Category 2

Hazardous to the aquatic environment - chronic hazard : Category 3

Hazardous to the environment : Hazardous to terrestrial invertebrates

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H412 Harmful to aquatic life with long lasting effects.  
H373 May cause damage to organs (hematopoietic system) through prolonged or repeated exposure if swallowed.  
H442 Toxic to terrestrial invertebrates.

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Precautionary statements : **Prevention:**  
P260 Do not breathe vapours.

**Response:**  
P314 Get medical advice/ attention if you feel unwell.

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

### Other hazards which do not result in classification

None known.

### Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
starch	9005-25-8	>= 1 -< 10
sucrose, pure	57-50-1	>= 1 -< 10
indoxacarb (ISO)	173584-44-6	>= 0.25 -< 1

### 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 : Move the victim to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep patient warm and at rest.  
Call a physician or poison control centre 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.

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.

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### 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 components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).  
Exposure to decomposition products may be a hazard to health.
- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)
- Specific extinguishing methods : 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 firefighters : 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

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- 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.  
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

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
starch	9005-25-8	WES-TWA	10 mg/m <sup>3</sup>	NZ OEL
		TWA	10 mg/m <sup>3</sup>	ACGIH
sucrose, pure	57-50-1	WES-TWA	10 mg/m <sup>3</sup>	NZ OEL
		TWA	10 mg/m <sup>3</sup>	ACGIH
indoxacarb (ISO)	173584-44-6	TWA	1 mg/m <sup>3</sup> (Respirable dust)	Supplier

- 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.

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 : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

- Remarks : No special protective equipment required.  
Eye protection : No special protective equipment required.  
Skin and body protection : No special protective equipment required.

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Select skin and body protection based on the physical job requirements.

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.

Personal protective equipment should comply with relevant national standards

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**Section 9: Physical and chemical properties**

Appearance	:	gel
Colour	:	brown
Odour	:	slight
Odour Threshold	:	No data available
pH	:	No data available
		4.9 Concentration: 100 %w/v
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Method: method not specified does not flash
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
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	1.123 g/cm <sup>3</sup> (22 °C)
Solubility(ies)	:	
Water solubility	:	No data available

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Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

    Viscosity, dynamic : No data available

    Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle characteristics

Particle size : 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.

**Section 11: Toxicological information**

Exposure routes : Ingestion  
Inhalation  
Skin contact  
Eye contact

**Acute toxicity**

Not classified due to lack of data.

**Product:**

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

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

**Components:****indoxacarb (ISO):**

Acute oral toxicity : LD50 (Rat): 268 mg/kg



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**Components:****indoxacarb (ISO):**

Result : May cause sensitisation by skin contact.

**Chronic toxicity****Germ cell mutagenicity**

Not classified due to lack of data.

**Components:****indoxacarb (ISO):**

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

**Carcinogenicity**

Not classified due to lack of data.

**Components:****indoxacarb (ISO):**

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

**Reproductive toxicity**

Not classified due to lack of data.

**Components:****indoxacarb (ISO):**

Reproductive toxicity - Assessment : No toxicity to reproduction

**STOT - single exposure**

Not classified due to lack of data.

**Components:****indoxacarb (ISO):**

Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.

**STOT - repeated exposure**

Not classified due to lack of data.

**Components:****indoxacarb (ISO):**

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

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### Aspiration toxicity

Not classified due to lack of data.

## Section 12: Ecological information

### Ecotoxicity

#### Components:

#### **indoxacarb (ISO):**

- |  |   |   |
|--|---|---|
| Toxicity to fish   | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 0.65 mg/l<br>Exposure time: 96 h  |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): 0.6 mg/l<br>Exposure time: 48 h  |
| Toxicity to algae/aquatic plants                                       | : | EC50 (Lemna gibba (gibbous duckweed)): > 84.3 mg/l<br>Exposure time: 14 d<br><br>NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.0793 mg/l<br>End point: Growth inhibition<br>Exposure time: 72 h                              |
| M-Factor (Acute aquatic toxicity)                                      | : | 1   |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC (Oncorhynchus mykiss (rainbow trout)): 0.15 mg/l<br>Exposure time: 90 d<br><br>NOEC (Pimephales promelas (fathead minnow)): 0.0675 mg/l<br>Exposure time: 28 d   |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 0.09 mg/l<br>Exposure time: 21 d   |
| M-Factor (Chronic aquatic toxicity)                                    | : | 1   |
| Toxicity to soil dwelling organisms                                    | : | LC50 (Eisenia fetida (earthworms)): > 1,250 mg/kg<br>Exposure time: 14 d<br><br>EC50 (Eisenia fetida (earthworms)): Calculated value > 125 mg/kg<br>Exposure time: 14 d   |
| Toxicity to terrestrial organisms                                      | : | LD50 (Colinus virginianus (Bobwhite quail)): 98 mg/kg<br><br>LD50 (Apis mellifera (bees)): 0.232 µg/bee<br>Exposure time: 48 h<br>End point: Acute oral toxicity<br><br>LD50 (Apis mellifera (bees)): 0.068 µg/bee<br>Exposure time: 48 h |

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End point: Acute contact toxicity

**Persistence and degradability****Components:****indoxacarb (ISO):**

Biodegradability : Result: Not readily biodegradable.

**Bioaccumulative potential****Components:****indoxacarb (ISO):**Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 950.3  
Exposure time: 21 d**Mobility in soil****Components:****indoxacarb (ISO):**

Distribution among environmental compartments : Remarks: No data available

**Other adverse effects**

No data available

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**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.  
Refer to the product label for specific disposal/recycling information  
Otherwise, dispose of waste at an approved landfill or other approved facility that will ensure the substance does not exceed the tolerable exposure limit (TEL) or environmental exposure limit (EEL), where relevant, or will treat the substance so that it is rendered no longer hazardous.Contaminated packaging : Empty remaining contents.  
Triple rinse containers.  
Add rinsings to spray tank  
Recycle empty container through Agrecovery (0800 247 326, [www.agrecovery.co.nz](http://www.agrecovery.co.nz)).  
Empty containers can be landfilled, when in accordance with the local regulations.  
Do not re-use empty containers.

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### Section 14: Transport information

#### International Regulations

##### UNRTDG

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no

##### IATA-DGR

UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passenger aircraft)	:	Not applicable

##### IMDG-Code

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

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

Not applicable for product as supplied.

#### National Regulations

##### NZS 5433

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

#### Special precautions for user

Remarks	:	Not classified as dangerous in the meaning of transport regulations.
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**Section 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****HSNO Approval Number**

HSR001752

ACVM Reg. not required

**Tolerable Exposure Limits (TEL)**

Not applicable

**Environmental Exposure Limits (EEL)**

Not applicable

**HSW Controls**

Certified handler certificate not required.

Tracking hazardous substance not required.

Record keeping is not required

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

**Section 16: Other information**

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

Date format : dd.mm.yyyy

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA : 8-hour, time-weighted average

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

AIIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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 Con-

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centration 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals 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; WHMIS - Workplace Hazardous Materials Information System

The information provided in this 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.

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