

## SAFETY DATA SHEET

### Section 1: IDENTIFICATION

**Product Name:** ADVION® COCKROACH GEL  
**Design Code:** A20379B  
**Recommended Use:** Insecticide  
**Company Details:** Syngenta Crop Protection Limited  
**Address:** Tower II, Level 7, 110 Symonds Street  
Private Bag 92618,  
Symonds Street  
AUCKLAND  
NEW ZEALAND

**Telephone number:** (weekdays) 09 306 1500  
**Emergency Telephone number:** (24 Hours) 0800 734 607  
**National Poisons & Hazchem Information Centre :** 0800 POISON (0800 764 766)

### Section 2: HAZARDS IDENTIFICATION

**Hazard classification:** 6.9B, 9.1C, 9.4B  
**Priority Identifier:** WARNING  
KEEP OUT OF REACH OF CHILDREN

**Secondary Identifiers:** 6.9B = May cause damage to organs (hematopoietic system) through prolonged or repeated exposure.  
9.1C = Harmful to aquatic life with long lasting effects  
9.4B = Toxic to terrestrial invertebrates

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

**Mixture:**

**Chemical Identity of ingredients:**

Ingredient	CAS no.	Content (% w/w)
Indoxacarb	173584-44-6	0.6%
Other ingredients determined not to be hazardous	-	to 100%

### Section 4: FIRST AID MEASURES

**Description of First Aid measures:**

**General Advice:** For advice contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.

**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 Doctor or the National Poisons 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 doctor.  
Wash contaminated clothing before re-use.

<b>In case of eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses (if present). Immediate medical attention is required.
<b>If swallowed:</b>	If swallowed seek medical advice immediately and show the container or label. DO NOT induce vomiting.
<b>Important symptoms and effects, both acute and delayed:</b>	
<b>Symptoms:</b>	No symptoms known or expected.
<b>Indication of any immediate medical attention and special treatment needed:</b>	
	There is no specific antidote available. Treat symptomatically.

## Section 5: FIRE-FIGHTING MEASURES

<b>Extinguishing media:</b>	
<b>Suitable extinguishing media:</b>	Small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Large Fires: Alcohol resistant foam or water spray.
<b>Unsuitable extinguishing media:</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Special hazards arising from the substance or mixture:</b>	
<b>Specific hazards during fire-fighting:</b>	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.
<b>Advice for firefighters:</b>	
<b>Special protective equipment for firefighters:</b>	Wear full protective clothing and self-contained breathing apparatus.

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	
	Refer to protective measures listed in Sections 7 and 8. Avoid dust formation.
<b>Environmental Precautions:</b>	
	Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
<b>Methods and material for containment and cleaning up:</b>	
	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.
<b>Reference to other sections:</b>	Refer to disposal considerations listed in Section 13. Refer to protective measures listed in sections 7 and 8.

## Section 7: HANDLING AND STORAGE

**Precautions for Safe handling:**

**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, including any incompatibilities:**

**Requirements for storage area and containers:**

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.

**Specific end use(s)**

**Specific use(s)**

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

## Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

**Control Parameters**

**Occupational Exposure Limits:**

Contains no substances with occupational exposure limit values.

**Exposure controls**

**Engineering measures:**

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.  
If airborne dust is generated, use local exhaust ventilation controls.  
Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.  
Where necessary, seek additional occupational hygiene advice.

**Personal Protective Protection:**

**Eye protection:**

No special protective equipment required.

**Hand protection:**

No special protective equipment required.

**Skin and body protection:**

No special protective equipment required.  
Select skin and body protection based on the physical job requirements.

**Respiratory protection:**

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

**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 be certified to appropriate standards.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

<b>Appearance:</b>	Gel
<b>Colour:</b>	Brown
<b>Odour:</b>	Slight
<b>Odour threshold:</b>	No data
<b>pH value</b>	5.4 – 6
<b>Melting point / freezing point:</b>	No data
<b>Initial boiling point and boiling range:</b>	No data
<b>Flash point:</b>	No data
<b>Flammability (solid, gas):</b>	No data
<b>Upper flammability / explosive limits:</b>	No data
<b>Lower flammability / explosive limits</b>	No data
<b>Vapour pressure:</b>	No data
<b>Vapour Density:</b>	No data
<b>Density:</b>	1.123 g/cm <sup>3</sup> (22°C)
<b>Solubility in other solvents:</b>	No data
<b>Partition co-efficient: n-octanol / water:</b>	Log Pow = 4.65 (25°C)
<b>Autoignition temperature</b>	No data
<b>Decomposition temperature:</b>	No data
<b>Viscosity:</b>	No data
<b>Explosive properties:</b>	No data
<b>Oxidising properties:</b>	Not oxidising

## Section 10: STABILITY AND REACTIVITY

### Reactivity:

See Section: "Possibility of Hazardous Reactions".

### Chemical Stability:

The product is stable when used in normal conditions.

### Possibility of Hazardous Reactions:

No hazardous reactions by normal handling and storage according to provisions.

### Conditions to Avoid

No decomposition if used as directed.

### Incompatible Materials:

No substances are known which lead to the formation of hazardous substances or thermal reactions.

### Hazardous Decomposition Products:

Combustion or thermal decomposition will evolve toxic and irritant vapours.

## Section 11: TOXICOLOGICAL INFORMATION

### HSNO Classifications:

6.9B = May cause damage to organs (hematopoietic system) through prolonged or repeated exposure.

### Acute toxicity (product)

Swallowed:	LD <sub>50</sub>	> 5000 mg/kg (rat, female)
Dermal absorption:	LD <sub>50</sub>	>5000 mg/kg (rat, male and female)
Inhaled:		Not tested as inhalation is not a potential route of exposure.
Aspiration hazard:		Not classified
Respiratory irritation:		Not classified

Skin corrosion / irritation:	<b>NON IRRITANT</b> (rabbit/ HSNO Classification)
Eye damage / irritation:	<b>NON IRRITANT</b> (rabbit/ HSNO Classification)
Respiratory or Skin Sensitisation:	<b>NOT A SKIN SENSITISER</b> (mouse – LLNA method)
<b>Chronic / Long Term Effects (active ingredient)</b>	
Germ cell mutagenicity:	Animal testing did not show any mutagenic effects.
Carcinogenicity:	No evidence of carcinogenicity in animal studies.
Reproductive toxicity:	No toxicity to reproduction.
Specific Organ toxicity:	<i>Single exposure:</i> The substance or mixture is not classified as specific target organ toxicant single exposure. <i>Repeated exposure:</i> Target Organs: Blood The substance or mixture is classified as specific target organ toxicant, repeated exposure, Class 6.9B, (GHS: category 2). May cause damage to the hematopoietic system from repeated oral exposure at high doses.
Narcotic Effects:	Not classified.

## Section 12: ECOLOGICAL INFORMATION

<b>HSNO Classifications:</b>	
9.1C = Toxic to aquatic life with long lasting effects	
9.4B = Toxic to terrestrial invertebrates	
<b>Ecotoxicity Effects – Aquatic (active ingredient)</b>	
<b>Acute toxicity to fish:</b>	LC <sub>50</sub> (96 h) = 0.65 mg/L ( <i>Oncorhynchus mykiss</i> (rainbow trout))
<b>Toxicity to daphnia and other aquatic invertebrates:</b>	EC <sub>50</sub> (48h) = 0.6 mg/L ( <i>Daphnia magna</i> (water flea))
<b>Toxicity to algae:</b>	E <sub>r</sub> C <sub>50</sub> (72 h) = >0.60 mg/L ( <i>Pseudokirchneriella subcapitata</i> (Freshwater green algae))
<b>Ecotoxicity Effects – Terrestrial (active ingredient)</b>	
<b>Toxicity to Birds:</b>	LD <sub>50</sub> = 98 mg/kg mg/kg (bobwhite quail)
<b>Toxicity to soil dwelling organisms:</b>	LC <sub>50</sub> (14 days) = > 1,250 mg/kg (earthworms)
<b>Toxicity to Bees:</b>	LD <sub>50</sub> (oral) = 0.26 µg/bee LD <sub>50</sub> (contact) = 0.094 µg/bee

<b>Persistence and degradability:</b>	
<b>Biodegradability:</b>	Not readily biodegradable
<b>Stability in water:</b>	Not persistent in water.
<b>Bioaccumulative potential:</b>	
<b>Bioaccumulation:</b>	Potential to bioaccumulate.
<b>Mobility in soil:</b>	
<b>Distribution among environmental compartments:</b>	Low mobility in soils
<b>Stability in soil:</b>	Not persistent in soil
<b>Other adverse effects:</b>	
<b>Results of PBT and vPvB assessment (product):</b>	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

## Section 13: DISPOSAL CONSIDERATIONS

<b>Product Disposal:</b>	DO NOT contaminate ponds, waterways or ditches with chemical or used containers. DO NOT dispose of waste into sewer. Dispose of this product only by using according to the label. 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.
<b>Container Disposal:</b>	Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

## Section 14: TRANSPORT INFORMATION

<b>Rail / Road (NZS 5433)</b>	Not dangerous goods
<b>Sea (IMDG-Code)</b>	Not dangerous goods
<b>Air (IATA)</b>	Not dangerous goods

## Section 15: REGULATORY INFORMATION

<b>HSNO Approval Number:</b>	HSR001752
<b>Tolerable Exposure Limit or Environmental Exposure Limit:</b>	No TEL or EEL values are set for this substance at this time
<b>Required Regulatory Controls:</b>	
<b>Certified handler:</b>	No
<b>Tracking:</b>	No
<b>Record Keeping:</b>	No
<b>ACVM Registration:</b>	Not applicable
<b>ACVM Controls:</b>	Not applicable
<b>International Agreements related to the substance (eg, Montreal Protocol, Stockholm Convention or Rotterdam Convention):</b>	Not applicable

## Section 16: OTHER INFORMATION

<b>Date of SDS Preparation / Review:</b>	1 August 2018
<b>Version number of SDS:</b>	3
<b>Key / Legend to abbreviations and acronyms used:</b>	
AICS - Australian Inventory of Chemical Substances;	MARPOL - International Convention for the Prevention of Pollution from Ships;
ANTT - National Agency for Transport by Land of Brazil;	N.O.S. - Not Otherwise Specified;
ASTM - American Society for the Testing of Materials;	Nch - Chilean Norm;
bw - Body weight;	NO(A)EC - No Observed (Adverse) Effect Concentration;
CMR -Carcinogen, Mutagen or Reproductive Toxicant;	NO(A)EL - No Observed (Adverse) Effect Level;
CPR - Controlled Products Regulations;	NOELR - No Observable Effect Loading Rate;
DIN - Standard of the German Institute for Standardisation;	NOM - Official Mexican Norm;
DSL - Domestic Substances List (Canada);	NTP - National Toxicology Program;
ECx - Concentration associated with x% response;	NZIoC - New Zealand Inventory of Chemicals;
ELx - Loading rate associated with x% response;	OECD - Organization for Economic Co-operation and Development;
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 Concentration to 50 % of a test population;  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose);

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;  
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;  
WES - Workplace Exposure Standard (Worksafe NZ);  
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 test.

This version replaces all previous versions.

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