

**CERTIFICATE OF REGISTRATION OF PESTICIDE/VECTOR REPELLENT
ISSUED UNDER THE CONTROL OF VECTORS AND PESTICIDES ACT
(CHAPTER 59)**

Registration Number : SINNEAI-GelRB/046/0740

This is to certify that

Name of Registrant : SYNGENTA ASIA PACIFIC PTE LTD
Address of Principal Place of Business : No. 1 HARBOUR FRONT AVENUE
#03-03 KEPPEL BAY TOWER
SINGAPORE 098632
NRIC/ACRA/UEN No : 199707386N


has been granted registration of the following pesticide for advertisement, sale and supply in Singapore.

Product Name : ADVION COCKROACH GEL
Active Ingredient(s) : INDOXACARB 0.60% W/W
Formulation : GEL BAIT
Manufacturer : AMERICAN BLENDING AND FILLING CORPORATION
ABF LABS, INC..
1731 LAKESIDE DRIVE
WAUKEGAN, IL 60085
USA

The Certificate of Registration is issued subject to the provisions of the Control of Vectors and Pesticides Act and Regulations and to the conditions stated overleaf.

08 APRIL 2013

Date of Registration


for Director-General of Public Health
Singapore

SAFETY DATA SHEET

Section 1: Identification: Product identifier and chemical identity

Product Identifier:	ADVION Cockroach Gel
Other Means of Identification:	Proper shipping name: Pesticide Gel Toxic, N.O.S. (indoxacarb) Applicable only for marine and air transport
	Product code: A20379B
Recommended Use:	For the control of Cockroaches
Details of manufacturer or importer	Syngenta Australia Pty Ltd ABN 33 002 933 717
Address:	Level 1, 2-4 Lyonpark Road MACQUARIE PARK NSW 2113 AUSTRALIA
Website:	syngenta.com.au
Phone Number:	(02) 8876 8444
Emergency Phone Number:	24 hours - 1800 033 111

Section 2: Hazards identification

Classification of the Hazardous Chemical:	Not classified as hazardous under GHS criteria.
Signal Word:	-
Hazard Statement(s):	-
Precautionary Statement(s):	-
Hazard Symbols:	-

Section 3: Composition and information on ingredients

SUBSTANCE	
Chemical Identity of Pure Substance:	Indoxacarb
Synonym:	NOA445432A, B12269781
CAS Number:	173584-44-6

MIXTURE		
Chemical Identity of Ingredients:	CAS No	Proportion (% w/w)
Indoxacarb		0.6
Non-hazardous ingredients	-	to 100

Section 4: First aid measures

Description of Necessary First Aid Measures:	<p>In case of poisoning by any exposure route contact a doctor or Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.</p> <p>Ingestion: If swallowed, seek medical advice immediately and show this container or label. DO NOT induce vomiting.</p> <p>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.</p> <p>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.</p> <p>Inhalation: 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.</p>
Symptoms Caused by Exposure:	Poisoning symptoms in laboratory animals were non-specific
Medical Attention and Special Treatment:	There is no specific antidote available. Treat symptomatically.

Section 5: Fire fighting measures

Suitable Extinguishing Equipment:	<p>Small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</p> <p>Large fires: Use alcohol-resistant foam or water spray. DO NOT use a solid water stream as it may scatter and spread fire.</p>
Specific Hazards Arising from the Chemical:	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.
Special Protective Equipment and Precautions for Fire Fighters:	Wear full protective clothing and self-contained breathing apparatus.

Section 6: Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures:	<p>In case of spillage it is important to take all steps necessary to</p> <ul style="list-style-type: none"> • Avoid eye and skin contact • Avoid contamination of waterways
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 Clean Up:	<p>Procedure for spill</p> <ol style="list-style-type: none"> (1) Keep all bystanders away (2) Wear full length clothing and PVC gloves (3) Reposition any leaking containers so as to minimise further leakage (4) Dam and absorb spill with an absorbent material (eg sand or soil)

- (5) Shovel the absorbed spill into drums
- (6) Disposal of the absorbed material will depend upon the extent of the spill
- For quantities up to 50 L of product bury in a secure landfill site
 - For quantities greater than 50 L seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established
- (7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable

Section 7: Handling and storage

Precautions for Safe Handling: Wash hands after use

Conditions for Safe Storage, Including any Incompatibilities: Store in the closed, original container in a cool, well ventilated locked place out of the reach of children. DO NOT store in direct sunlight and DO NOT store at temperatures exceeding 35°C.

Section 8: Exposure controls and personal protection

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

	Component	Exposure limit	Value type
National Exposure Standards:	No exposure standard allocated		
Syngenta Exposure Standards:	No exposure standard allocated		
Biological Limit Values:	No biological limits allocated		
Engineering Controls:	<p>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.</p> <p>If airborne mists or vapours are generated, use local exhaust ventilation controls.</p> <p>Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.</p> <p>Where necessary, seek additional occupational hygiene advice.</p>		
Personal Protective Equipment:	No personal protective equipment is specified, however, avoid contact with skin, eyes and clothing.		

Section 9: Physical and chemical properties

Appearance:	Brown gel	Boiling Point/Range:	No information available
Odour:	Slight	Freezing/Melting Point:	No information available
pH:	5.4	Solubility:	Specify solvent
Vapour Pressure:	No information available	Density:	1.123 g/mL at 22°C
Vapour Density:	No information available		

Flash Point:	>100°C	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not flammable	Oxidising Properties:	No information available
Ignition Temperature:	No information available	Combustibility:	No information available
		Corrosiveness:	No information available

Section 10: Stability and reactivity

Reactivity:	No information available
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

Health Effects from Likely Routes of Exposure:		
Acute	Oral toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following single doses of undiluted product LD ₅₀ = >5,000 mg/kg
	Dermal toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following skin contact with undiluted product LD ₅₀ = >5,000 mg/kg
	Inhalation:	LOW TOXICITY Tests on rats indicate this product is not harmful due to inhalation of active ingredient LC ₅₀ (4 h) = >5.5 mg/L air
	Skin irritation:	NON IRRITANT
	Eye irritation:	NON IRRITANT
	Sensitisation:	NOT A SENSITISER
Chronic	Indoxacarb technical has been extensively tested on laboratory mammals and in test tube systems. No evidence was obtained of mutagenic or carcinogenic effects. Experiments have shown teratogenic and reproductive effects on laboratory animals.	

Section 12: Ecological information

Ecotoxicity	Toxicity to fish:	Highly toxic to fish Rainbow trout (<i>Oncorhynchus mykiss</i>) LC ₅₀ (96 hours) = 0.65 mg/L
	Toxicity to daphnia and other aquatic invertebrates:	Highly toxic to aquatic invertebrates Water flea (<i>Daphnia magna</i>) EC ₅₀ (48 hours) = 0.6 mg/L
	Toxicity to algae:	Practically non toxic to algae Duckweed (<i>Lemna gibba</i>) EC ₅₀ (14 days) = >84.3 mg/L
	Toxicity to soil dwelling organisms:	No information available

Persistence and Degradability:	Indoxacarb is not readily biodegradable Indoxacarb is not considered to be persistent (PBT) or very persistent (vPvB)
Mobility in Soil:	Indoxacarb is slightly mobile in soils
Bioaccumulative Potential:	Bluegill Sunfish (<i>Lepomis macrochirus</i>) = 950.3 (21 days) Indoxacarb is not considered to be bioaccumulating nor toxic (PBT) Indoxacarb is not considered to be very bioaccumulating (vPvB)

Section 13: Disposal considerations

Disposal Methods:	Dispose of empty container by wrapping in paper, placing in plastic bag and putting in the garbage.
Special Precautions for Incineration or Landfill:	Not applicable

Section 14: Transport information

LAND TRANSPORT ADG	Not a dangerous good in Australia		
UN Number:	None allocated	Packing Group:	None allocated
UN Proper Shipping Name:	None allocated	Special Precautions for User:	None allocated
Transport Hazard Class:	None allocated	Hazchem or Emergency Action Code:	None allocated
Subsidiary Risk:	None allocated		

SEA TRANSPORT IMDG	Not a dangerous good in Australia		
UN Number:	None allocated	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	None allocated	Packing Group:	None allocated
Transport Hazard Class:		Environmental hazards for Transport Purposes:	Not a marine pollutant

AIR TRANSPORT IATA - DGR	Not a dangerous good in Australia		
UN Number:	None allocated	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	None allocated	Packing Group:	None allocated
Transport Hazard Class:			

Section 15: Regulatory information

APVMA Product Number:	60126
Poisons Schedule (SUSMP):	5

Section 16: Any other relevant information

Date of preparation or last revision: November 2016r

Source of Data: The information provided in this SDS is sourced from Syngenta internal studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions

CONTACT POINT: Regulatory Affairs Manager, Syngenta Australia Pty Ltd
(02) 8876 8444

24 HOURS EMERGENCY CONTACT: 1800 033 111

This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

DISCLAIMER

This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Syngenta's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Syngenta shall have no liability.