SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	**ARILON® INSECTICIDE**
Other Names:	**Proper shipping name:** Environmentally Hazardous Substance, Solid, N.O.S. (indoxacarb) **Applicable only for marine and air transport** **Product code:** A20382A
Recommended Use:	For the control of Ants, Cockroaches and House Flies and direct control of Subterranean Termites
Company Details:	**Syngenta Australia Pty Ltd** ABN 33 002 933 717
Address:	**Level 1, 2-4 Lyonpark Road** **Macquarie Park NSW 2113** **AUSTRALIA**
Telephone Number:	**(02) 8876 8444**
Emergency Telephone Number:	**24 hours - 1800 033 111**

Section 2: HAZARDS IDENTIFICATION

Hazard Classification:	Classified as a hazardous chemical according to the Australian criteria for the classification of chemicals
Risk Phrases:	R22 Harmful if swallowed R43 May cause sensitisation by skin contact
Safety Phrases:	–

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	
Chemical Identity of Pure Substance:	Indoxacarb (S-enantiomer)
Synonym:	NOA445432A
CAS Number:	173584-44-6

MIXTURE

Chemical Identity of Ingredients	**CAS No**	**Proportion (% w/v)**
Indoxacarb (S-enantiomer)	173584-44-6	20
Other ingredients determined not to be hazardous	-	to 100

Section 4: FIRST AID MEASURES

Description of Necessary First Aid Measures:	In case of poisoning by any exposure route get to a doctor or hospital quickly. Phone Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.	
	Ingestion:	Call the Poisons Information Centre or a doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a doctor or the Poisons Information Centre. Never give anything by mouth to an unconscious person.
	Eye contact:	Hold eyes 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 the Poisons Information Centre or a doctor for treatment advice.
	Skin contact:	Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call the Poisons Information Centre or a doctor for treatment advice.
	Inhalation:	Remove person to fresh air. If signs/symptoms persist, seek medical attention. Call the Poisons Information Centre or a doctor for treatment advice.
Poisoning Symptoms:	Poisoning symptoms in laboratory animals were non-specific.	
Medical Advice:	There is no specific antidote available. Treat symptomatically	

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Use water spray, foam, dry chemical or carbon dioxide. DO NOT use high volume water jet.
Hazards from Combustion Products:	No information available.
Special Protective Precautions and Equipment for Fire Fighters:	In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment.
Further Information:	Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Control runoff. For small fires, if area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers / tanks with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	In case of spillage it is important to take all steps necessary to • Avoid eye and skin contact • Avoid contamination of waterways
Methods and Materials for Containment and Clean Up:	**Procedure for spill** (1) Keep all bystanders away (2) Wear full length clothing and PVC gloves (3) Reposition any leaking containers so as to minimise leakage (4) **For a product spill:** Sweep spill into a pile. **For a prepared spray spill:** Dam and absorb spill with an absorbent material (eg sand or soil). (5) Shovel into drums (6) Disposal of the material will depend upon the extent of the spill • For quantities up to 50 kg of product bury in a secure landfill site • For quantities greater than 50 kg 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:	Harmful if swallowed. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Wash hands after use. After each day's use, wash contaminated clothing.
Conditions for Safe Storage:	Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

National Exposure Standards:	No exposure standard allocated
Biological Limit Values:	No biological limit allocated.
Engineering Controls:	Ensure adequate ventilation, especially in confined areas
Personal Protective Equipment:	Harmful if swallowed. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Wash hands after use. After each day's use, wash contaminated clothing.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid, granules	**pH:**	8.1-9.1
Colour:	Tan to white	**Explosive properties:**	Not explosive
Odour:	slight	**Oxidising properties:**	Not oxidising

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal temperatures and storage conditions
Conditions to Avoid:	None known
Incompatible Materials:	None known
Hazardous Decomposition Products:	No information available
Hazardous Reactions:	No information available

Section 11: TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:

Acute:	**Oral toxicity:**	**HARMFUL** Tests on rats indicate this product is harmful following single doses of undiluted product LD_{50} = 1,909 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 undiluted product LC_{50} (4 hours) = >4.8 mg/L
	Skin irritation:	**SLIGHT IRRITANT**
	Eye irritation:	**SLIGHT 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, carcinogenic or reproductive effects. Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity. A repeated dose inhalation study in rats showed signs of incoordination, increased mortality or reduced survival and respiratory irritation. A repeated dose study in rats showed red blood cell destruction causing abnormal decrease in number of red blood cells (anaemia).	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	**Highly toxic to fish** LC_{50} (96 hours) = 0.65 mg/L Rainbow trout (oncorhynchus mykiss) **Highly toxic to aquatic invertebrates** EC_{50} (48 hours) = 0.6 mg/L Water flea (*Daphnia magna)* **Practically non toxic to aquatic plants** EC_{50} (14 days) = >84.3 mg/L Duckweed *(Lemna gibba)*
Persistence and Degradability:	Indoxacarb is not readily biodegradable Indoxacarb is not considered to be persistent (PBT) or very persistent (vPvB)
Mobility:	Indoxacarb is slightly mobile in soils
Environmental Fate (Exposure):	No data available
Bioaccumulative Potential:	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 and Containers:	Rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. Dispose of at an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.
Special Precautions for Landfill or Incineration:	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
Class:	None allocated	**Hazchem Code:**	None allocated
Subsidiary Risk:	None allocated		

SEA TRANSPORT IMDG			
UN Number:	3077	**Subsidiary Risk:**	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (indoxacarb)	**Packing Group:**	III
Class:	9	**Marine Pollutant:**	Marine pollutant

AIR TRANSPORT ICAO / IATA			
UN Number:	3077	**Subsidiary Risk:**	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (indoxacarb)	**Packing Group:**	III
Class:	9		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	64397
Poisons Schedule (SUSDP):	S6

Section 16: OTHER INFORMATION

Date of preparation or last revision: February 2014

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.

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LOA No 1064

AQIS ACCEPTANCE OF CHEMICAL COMPOUND FOR USE IN EXPORT REGISTERED MEAT ESTABLISHMENTS

LETTER OF ACCEPTANCE (LOA) FOR CHEMICAL COMPOUND

This is to advise that the following chemical compound known as **DuPont Arilon insecticide** supplied by **Du Pont (Australia) Ltd** has been assessed as being acceptable for use in export registered meat establishments. The acceptance is subject to any conditions that may be specified in Schedule 1. Please note this LOA is only valid at export registered meat establishments.

SCHEDULE 1.

The chemical compound is accepted under **Category 16 Pesticide Type D.** This compound must not be used for any other purpose within an export registered meat establishment.

- The chemical compound shall be manufactured, labelled and contain directions for use in accordance with the details supplied by the applicant in the application for acceptance dated 27/4/2011.
- The person to whom this acceptance is granted shall notify the AQIS Coordinator Chemical compounds of any proposed alteration of formulation, labelling or directions for use of the chemical compound, and shall not effect any such alterations without receiving notification of approval from AQIS.
- This acceptance is not to be construed as an indication that AQIS has tested the efficacy of the chemical compound nor as an endorsement of the chemical compound.
- The person to whom this acceptance is granted shall not use the acceptance or any departmental logo in any form of advertising or on any label unless the wording or display has been approved, in writing, by the Secretary.
- This acceptance may be revoked if;
  - (a) any of the conditions made by this acceptance are not complied with;
  - (b) the circumstances in which this acceptance was made change, or
  - (c) AQIS becomes aware that the chemical compound has compromised food safety or the wholesomeness of meat or meat products.
- Unless revoked, this approval will expire automatically on 16 June 2016.

DATED THIS sixteenth day of June 2011

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Dean Traynor
Chemical Co-ordinator

APPLICATION FEE
$200.00
PAID