



Marga Sison
Regulatory Product
Manager

**Syngenta Crop Protection Pty
Limited**
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Level 1, 2 - 4 Lyonpark Road
Macquarie Park NSW 2113
Australia
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Correspondence address
PO Box 886 North Ryde
NSW 1670 Australia

**DECLARATION FOR A HAZARDOUS SUBSTANCE FOR USE IN EXPORT REGISTERED MEAT
AND MEAT PRODUCT ESTABLISHMENTS**

25 August 2011

Name of Hazardous Substance: DEMAND INSECTICIDE
Manufacturer of Hazardous Substance: Syngenta Crop Protection Pty Limited
Category of use of Hazardous Substance: Category 14 Pesticide Type B
(as per Appendix 1 of AQIS Meat Notice 2011-05)

Intended use of Hazardous Substance: Registered with the APVMA for use in commercial, domestic, industrial buildings including food processing/handling establishments

I, Marga Sison, Regulatory Product Manager of Syngenta Crop Protection Pty Limited, declare that the above hazardous substance is suitable for use in export registered meat or meat product establishments for the purposes stated in this application, that I have supplied a copy of the label and MSDS with this declaration and acknowledge that this declaration is subject to the following conditions:

This declaration is rendered invalid by:

1. Any change in the formulation of the following hazardous substance,
2. Any change in the instructions for use of the following hazardous substance,
3. Any change in the incorrect and/or unintended use of the following hazardous substance.

Marga Sison
Regulatory Product Manager

Declaration of qualified chemist

The hazardous substance identified above, when used in accordance with the directions on the label:

- Is fit for the purpose for which they are to be used
- Will not contaminate animals, meat and meat products

Brian Cassar
Qualified Chemist

Demand Insecticide		Page 1 of 6
Base Label (500 mL, 1 L)	Version 6	20 May 2011

CAUTION

KEEP OUT OF REACH OF CHILDREN
 READ SAFETY DIRECTIONS BEFORE OPENING OR USING



syngenta.

ACTIVE CONSTITUENTS: 25 g/L LAMBDA-CYHALOTHRIN

GROUP **3A** INSECTICIDE

For the control of various insect pests Cockroaches, Spiders, Fleas, Ants, Flies, Silverfish and Mosquitoes in domestic, commercial, public and industrial situations, as per Directions for Use

IMPORTANT: Read the attached leaflet before use

500 mL, 1 LITRE

*Syngenta Crop Protection Pty Limited
 Level 1, 2-4 Lyonpark Road, Macquarie Park NSW 2113*

*In a transport emergency dial 000, Police or Fire Brigade
 For specialist advice in an emergency only, call 1800 033 111 (24 hours)*

*APVMA Approval No.: 47196/49682
 Item number*



TM

Demand Insecticide		Page 2 of 6
Base Label (500 mL, 1 L)	Version 6	20 May 2011

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight. Triple, or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways desirable vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Will irritate the eyes and skin. Facial skin contact may cause temporary facial numbness. Avoid contact with eyes and skin. When preparing the spray and using the prepared spray wear:

- cotton overalls buttoned to the neck and wrist
- a washable hat
- elbow-length PVC gloves

If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms, and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone 131 126. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

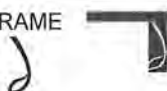
MATERIAL SAFETY DATA SHEET

If additional hazard information is required refer to the Material Safety Data Sheet. For a copy phone 1800 067 108, or visit our website at www.syngenta.com.au

MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY

Syngenta has no control over storage, handling and manner of use of this product. Where this material is not stored, handled or used correctly and in accordance with directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Syngenta accepts no liability for any loss or damage arising from incorrect storage, handling or use.

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APVMA Approval No.: 47196/49682



Batch No	
Date of Manufacture	

Barcode

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DIRECTIONS FOR USE

Restraint: DO NOT use in farm buildings where grain or crop produce is stored.

Situation	Pests	Rate / 10 L water	Critical Comments
Commercial, domestic, industrial and public buildings including; barracks, factories, farm buildings, food processing/handling establishments, hospitals, hotels & motels, offices, residential homes, restaurants, shops, schools, storerooms, transportation equipment such as aircraft, boats, buses, ships, trains, warehouses and other situations which fall within the above definitions including outdoor or external areas associated with such establishments, on surfaces including; cement – painted, unpainted and rendered, ceramic tiles, painted plasterboard, steel – stainless and enamelled, wood – painted and unpainted.	German Cockroaches (<i>Blattella germanica</i>)	Clean out 200 mL	Apply dilute spray at the rate of 10 L/200 m ² or to run off.
		Maintenance 100 mL	Crawling insects: Locate possible harbourages and thoroughly apply Demand as a coarse low pressure spray to these areas. Barrier spraying around infestation origin points may increase control.
	American Cockroaches (<i>Periplaneta americana</i>)	Clean out 160 mL	
		Maintenance 100 mL	Flying insects: Apply as a residual surface treatment. All people and animals should be removed from buildings prior to treatment.
	Ants Cat Flea House Flies	200 mL	
	Mosquitoes Spiders	160 mL	Cockroaches, ants and house flies Indoors Demand (200 mL rate only) can deliver residual control of up to 12 months. Outdoors Demand (200 mL rate only) can deliver residual control of up to 3 months. DO NOT apply in areas exposed to rain and/or direct sunlight. Apply in sheltered areas where insects lurk.
Silverfish	100 mL		

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

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GENERAL INSTRUCTIONS

Mixing

1. Half fill the spray tank with water.
2. Shake DEMAND well before use.
3. Measure the required amount of DEMAND using the device attached to the cap.
4. Pour the measured dose of DEMAND into the sprayer.
5. Add the remaining water, close sprayer, shake and pump to correct pressure and apply spray.

Insecticide Resistance Warning

GROUP 3A INSECTICIDE

For insecticide resistance management DEMAND Insecticide is a Group 3A insecticide. Some naturally occurring insect biotypes resistant to DEMAND and other Group 3A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if DEMAND or other Group 3A insecticides are used repeatedly. The effectiveness of DEMAND on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Syngenta Crop Protection Pty Limited accepts no liability for any losses that may result from the failure of DEMAND to control insects. DEMAND may be subject to specific resistance management strategies. For further information contact your local supplier, Syngenta Crop Protection Pty Limited representative or local agricultural department agronomist.

PRECAUTIONS

Cover all foodstuffs before application. DO NOT allow spray to contact food, food preparation surfaces and utensils. When using in farm buildings do not spray directly onto livestock, their food, water, litter, feed bins or surfaces accessible to stock.

BEFORE USE: Remove or cover foodstuff. Cover all dishes and utensils and surfaces where food is prepared. Remove animals, remove or cover all exposed stock feed, feed and water containers and troughs, places where stock feed is prepared or stored, and milking equipment.

AFTER USE: Thoroughly ventilate treated areas. Clean up thoroughly before processing/serving resumes.

PROTECTION OF WILDLIFE FISH, CRUSTACEANS AND ENVIRONMENT

Harmful to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used containers. DO NOT discharge the liquid into waterways. Remove or cover fish tanks before use.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight. Triple, or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways desirable vegetation and tree roots. Empty containers and product should not be burnt.

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SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	DEMAND[®] Insecticide
Other Names:	Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Lambda-cyhalothrin and Substituted Benzenoid Hydrocarbons) Applicable only for marine transport
	Product code: A12689A
Recommended Use:	Insecticide for the control of Cockroaches, Spiders, Fleas, Ants, Flies, Silverfish and Mosquitoes in Domestic, Public Service, Commercial and Industrial situations.
Company Details:	Syngenta Crop Protection Pty Limited 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:	R23 Toxic by inhalation R43 May cause skin sensitisation by skin contact
Safety Phrases:	-

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	
Chemical Identity of Pure Substance:	Lambda-cyhalothrin
Synonym:	PP321
CAS Number:	91465-08-6

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (%w/v)
Lambda-cyhalothrin	91465-08-6	2.5
solvent naphtha (petroleum), light aromatic	64742-95-6	1 - 5
1,2-propanediol	57-55-6	5 - 10
1,2-benzisothiazol-3(2H)-one	2634-33-5	0.05 - 1
Other ingredients determined not to be hazardous	-	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 contaminated clothing and shoes immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.</p> <p>Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Information Centre immediately.</p>
Poisoning Symptoms:	Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours.
Medical Advice:	<p>Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. Treat symptomatically.</p> <p>Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.</p>

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	<p><i>Small fires</i> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use a solid water stream as it may scatter and spread fire.</p> <p><i>Large fires</i> Use alcohol-resistant foam or water spray. Do not use a solid water stream as it may scatter and spread fire.</p>
Hazards from Combustion Products:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Combustion or thermal decomposition will evolve toxic and irritant vapours. Exposure to decomposition products may be a hazard to health.
Special Protective Precautions and Equipment for Fire Fighters:	<p>Wear protective clothing and self-contained breathing apparatus.</p> <p>Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.</p>

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	In case of spillage it is important to take all steps necessary to <ul style="list-style-type: none"> Avoid eye and skin contact Avoid contamination of waterways
Methods and Materials for Containment and Clean Up:	Procedure for spill <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 <ul style="list-style-type: none"> 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:	Will irritate the eyes and skin. Facial skin contact may cause temporary facial numbness. Avoid contact with eyes and skin. When preparing the spray and using the prepared spray wear: <ul style="list-style-type: none"> cotton overalls buttoned to the neck and wrist a washable hat elbow-length PVC gloves If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms, and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.
Conditions for Safe Storage:	Store in the closed original container in a cool, well-ventilated area, out of direct sunlight. DO NOT store for prolonged periods in direct sunlight.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

	<i>Component</i>	<i>Exposure limit</i>	<i>Value type</i>
National Exposure Standards:	1,2-propanediol (vapour and particulates)	474 mg/L	8h TWA
		150 ppm	8h TWA
Syngenta Exposure Standards:	lambda-cyhalothrin (skin)	0.04 mg/m ³	8h TWA
Exposure Standards (Supplier)	solvent naphtha (petroleum), light arom.	100 mg/m ³	8h TWA
Biological Limit Values:	No biological limit allocated		

Engineering Controls:	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 mists or vapours are 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 Equipment:	Will irritate the eyes and skin. Facial skin contact may cause temporary facial numbness. Avoid contact with eyes and skin. When preparing the spray and using the prepared spray wear: <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist • a washable hat • elbow-length PVC gloves If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms, and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white suspension	Boiling Point/Range:	Not available
Odour:	Like phenol, weak	Freezing/Melting Point:	Not available
pH:	5.0 – 6.0	Solubility:	Miscible in water
Vapour Pressure:	Not available	Density:	1.031 g/cm ³ at 20°C
Vapour Density:	Not available	Viscosity, kinematic:	1,540 cSt at 20°C

Flash Point:	>98°C at 745 mm Hg	Explosive Properties:	Not Explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not applicable	Oxidising Properties:	Not oxidising
Ignition Temperature:	620°C	Combustibility:	Combustible
		Corrosiveness:	Not corrosive

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Combustion or thermal decomposition will evolve toxic and irritant vapours.
Hazardous Reactions:	None known. Hazardous polymerization does not occur.

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 a similar formulation. (LD ₅₀ , Rat >5,000 mg/kg)
	Dermal toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following single doses of a similar formulation. (LD ₅₀ >4,000 mg/kg)

Inhalation:	LOW TOXICITY Tests on rats indicate this product not harmful due to inhalation of a similar formulation. (LC ₅₀ (4 hr) >4.62 mg/L)
Skin irritation:	PRACTICALLY NON IRRITANT May cause temporary itching, tingling, burning or numbness of exposed skin, called paraesthesia.
Eye irritation:	NON IRRITANT
Sensitisation:	SENSITIZER (Derived from active ingredient)
Chronic:	Lambda-cyhalothrin technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence was obtained of mutagenic, carcinogenic, teratogenic neurotoxic or reproductive effects.

Section 12: ECOLOGICAL INFORMATION

The following information is based on lambda-cyhalothrin technical material.

Ecotoxicity:	<i>Toxicity to fish:</i>	Very highly toxic to fish <i>Oncorhynchus mykiss</i> (rainbow trout): LC ₅₀ = 18 µg/L, 96 h
	<i>Toxicity to daphnia and other aquatic invertebrates:</i>	Very highly toxic to aquatic invertebrates <i>Daphnia magna</i> (Water flea): EC ₅₀ = 15 µg/L, 48 h
	<i>Toxicity to algae:</i>	Moderately toxic to algae <i>Pseudokirchneriella subcapitata</i> (green algae): EC ₅₀ >1 mg/L, 72 h
Persistence and Degradability:	Lambda-cyhalothrin is not persistent in soil or water.	
Environmental Fate (Exposure):	Incorporated into organic molecules	
Mobility	Lambda-cyhalothrin is immobile in soil.	
Bioaccumulative Potential:	Lambda-cyhalothrin bioaccumulates.	

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.
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:	3082	Class:	9
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Lambda-cyhalothrin and Substituted benzenoid hydrocarbons)	Subsidiary Risk:	None allocated
		Packing Group:	III
		Marine Pollutant:	Marine pollutant

AIR TRANSPORT IATA - DGR			
UN Number:	None allocated	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	None allocated	Packing Group:	None allocated
Class:	None allocated		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	47196
Poisons Schedule (SUSDP):	5

Section 16: OTHER INFORMATION

Date of preparation or last revision: May 2010
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 Crop Protection Pty Limited (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.