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Date of Issue: November 2016

#### **SAFETY DATA SHEET**

## Section 1: Identification: Product identifier and chemical identity

Product Identifier: DEMAND® Insecticide

Other Means of Identification: Proper shipping name: Environmentally Hazardous Substance,

Liquid, N.O.S. (Lambda-cyhalothrin and Substituted Benzenoid

Hydrocarbons)

Applicable only for marine and air transport

Product code: A12689A / A12689G

Recommended Use: Insecticide for the control of Cockroaches, Spiders, Fleas, Ants, Flies,

Silverfish and Mosquitoes in Domestic, Public Service, Commercial

and Industrial situations.

Details of manufacturer or

Syngenta Australia Pty Ltd

importer

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 Not classified as hazardous under GHS criteria.

Chemical:

Signal Word: Hazard Statement(s): Precautionary Statement(s): -

Hazard Symbols: -

#### Section 3: Composition and 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:

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.

Ingestion: If swallowed, seek medical advice immediately and show

> this container or label. Do NOT induce vomiting.

Rinse immediately with plenty of water, also under the **Eve contact:** 

evelids, for at least 15 minutes. Remove contact lenses.

Immediate medical attention is required.

Take off contaminated clothing and shoes immediately. Skin contact:

> Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated

clothing before re-use.

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.

Symptoms Caused by

**Exposure:** 

Aspiration may cause pulmonary oedema and pneumonitis.

Skin contact paresthesia effects (itching, tingling, burning or numbness)

are transient, lasting up to 24 hours.

**Medical Attention and** 

**Special Treatment:** 

Do not induce vomiting: contains petroleum distillates and/or aromatic

solvents.

Treat symptomatically.

#### **Section 5: Fire fighting measures**

Suitable Extinguishing

**Equipment:** 

Small fires: 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.

Large fires: Use alcohol-resistant foam or water spray. DO NOT use

a solid water stream as it may scatter and spread fire.

Chemical:

Specific Hazards Arising from the 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. DO NOT allow run-off from fire fighting to enter drains or water

courses.

Cool closed containers exposed to fire with water spray.

#### Section 6: Accidental release measures

Personal Precautions, Protective **Equipment and Emergency** 

Procedures:

In case of spillage it is important to take all steps necessary to

· Avoid eve and skin contact

Avoid contamination of waterways Wear full length clothing and PVC gloves

Keep all bystanders away

**Environmental precautions:** Prevent further leakage or spillage if safe to do so.

DO NOT flush into surface water or sanitary sewer system.

# 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 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:**

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.

# Conditions for Safe Storage, Including any Incompatibilities:

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 and personal protection

#### ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

	Component	Exposure limit	Value type
National Exposure Standards:	1,2-propanediol	474 mg/L	8h TWA
	(vapour and particulates)	150 ppm	8 h TWA
Syngenta Exposure Standards:	lambda-cyhalothrin (skin)	0.04 mg/m <sup>3</sup>	8h TWA
Biological Limit Values:	No biological limits 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:

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: Freezing/Melting Point: Not available Like phenol, weak pH: 5.0 - 6.0Solubility: Miscible in water Vapour Pressure: Not available Density: 1.031 g/cm<sup>3</sup> at 20°C

Vapour Density: Not available

Flash Point: >98°C at 745 mm Hg **Explosive Properties:** Not Explosive **Upper and Lower** Not applicable

Flammable (Explosive)

Limits in Air:

**Ignition Temperature:** 620°C Oxidising Properties: Not oxidising Combustibility: Combustible

Corrosiveness: Not corrosive

# Section 10: Stability and reactivity

Reactivity: No information available.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous** None known.

Reactions: Hazardous polymerisation does not occur.

**Conditions to Avoid:** No information available. **Incompatible Materials:** No information available.

**Hazardous Decomposition** Combustion or thermal decomposition will evolve toxic and irritant

**Products:** 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 a similar formulation.

LD<sub>50</sub>, 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.

 $LD_{50} > 4,000 \text{ mg/kg}$ 

**LOW TOXICITY** Inhalation:

Tests on rats indicate this product not harmful due to inhalation of a

similar formulation. LC<sub>50</sub> (4 hr) >4.62 mg/L Skin irritation: NON IRRITANT

May cause temporary itching, tingling, burning or numbness of

exposed skin, called paraesthesia.

Eye irritation: **NON IRRITANT** 

Sensitisation: **SENSITISER** (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**

**Ecotoxicity** Toxicity to fish: Very highly toxic to fish

Oncorhynchus mykiss (rainbow trout):

 $LC_{50} = 18 \mu g/L, 96 h$ 

Toxicity to daphnia Very highly toxic to aquatic invertebrates

Daphnia magna (Water flea): and other aquatic

invertebrates:  $EC_{50} = 15 \mu g/L, 48 h$ 

Toxicity to algae: Moderately toxic to algae

Pseudokirchneriella subcapitata (green algae):

 $EC_{50} > 1 \text{ mg/L}, 72 \text{ h}$ 

Toxicity to soil Practically non-toxic to earthworms

dwelling Eisenia foetida (earthworm): organisms:  $LC_{50} > 1000 \text{ mg/kg}, 14 \text{ day}$ 

Persistence and Degradability:

Lambda-cyhalothrin is not persistent in soil or water.

Mobility in Soil: Lambda-cyhalothrin is immobile in soil. Lambda-cyhalothrin bioaccumulates

**Bioaccumulative** 

Potential:

## **Section 13: Disposal considerations**

**Disposal Methods:** 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** 

Not applicable

Incineration or Landfill:

#### **Section 14: Transport information**

<b>LAND TRANSPORT</b> 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			
UN Number:	3082	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Lambda-cyhalothrin and Solvent naptha)	Packing Group:	III
Transport Hazard Class:	9	Environmental hazards for Transport Purposes:	Marine pollutant

AIR TRANSPORT IATA - DGR			
UN Number:	3082	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Lambda-cyhalothrin and Solvent naptha)	Packing Group:	III
Transport Hazard Class:	9		

## **Section 15: Regulatory information**

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

## Section 16: Any other relevant information

Date of preparation or last revision: November 2016

**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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