

Infosafe No™ 3NUZR Issue Date : July 2017 ISSUED by NUFARM

Product Name **MATADOR® with Zeon Technology Insecticide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	MATADOR® with Zeon Technology Insecticide
<b>Product Code</b>	1082
<b>Product Type</b>	Group 3A Insecticide
<b>Company Name</b>	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
<b>Address</b>	103-105 Pipe Road Laverton North Victoria 3026 Australia
<b>Telephone/Fax Number</b>	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>Recommended use of the chemical and restrictions on use</b>	For the control of certain insect pests in cotton, barley, wheat and other field crops, and in oranges, lemons, brassicas, potatoes, tomatoes and onions as per the Directions for Use table on the label.
<b>Other Information</b>	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	CA2 Carcinogenicity: Category 2 OT3 Acute Toxicity - Oral: Category 3 IT 4 Acute Toxicity - Inhalation: Category 4 SS-1 Sensitization - Skin: Category 1 AH1 Aspiration Hazard: Category 1 SE-3NARC STOT Single Exposure Category 3 (narcotic) AC1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H351 Suspected of causing cancer. H301 Toxic if swallowed. H332 Harmful if inhaled. H317 May cause an allergic skin reaction. H304 May be fatal if swallowed and enters airways. AUH066 Repeated exposure may cause skin dryness or cracking H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
<b>General Precautionary Statement (s)</b>	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
<b>Pictogram (s)</b>	Health hazard, Skull and crossbones, Exclamation mark, Environment, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



<b>Precautionary statement – Prevention</b>	P202 Do not handle until all safety precautions have been read and understood. P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves, clothing, eye and face protection. P260 Do not breathe spray.
<b>Precautionary statement – Response</b>	P308+P313 IF exposed or concerned: Get medical advice/attention. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth. P331 Do NOT induce vomiting. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a

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position comfortable for breathing.  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P363 Wash contaminated clothing before reuse.

**Other Information**

Poisons Schedule S6

### 3. Composition/information on ingredients

<b>Chemical</b>	Liquid		
<b>Characterization</b>			
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Lambda- cyhalothrin	91465-08-6	250 g/L
	Solvent naphtha	64742-94-5	15-20 %
	Other ingredients (considered non-hazardous)		>60%

### 4. First-aid measures

<b>Inhalation</b>	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
<b>Ingestion</b>	Rinse mouth and then drink plenty of water. If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
<b>Skin</b>	Do not give anything by mouth to a semi-conscious or unconscious person. Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. Obtain medical advice immediately.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
<b>Advice to Doctor</b>	Treat symptomatically. In cases of skin contact, application of Vitamin E cream has been found to have very high therapeutic value. If vomiting occurs, solvent present may cause pulmonary oedema.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.
<b>Hazards from Combustion Products</b>	If involved in a fire, the dehydrated components may emit oxides of carbon, oxides of nitrogen and minor quantities of hydrogen chloride and hydrogen fluoride.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus must be worn when fighting a fire in which this product is involved.
<b>Specific hazards arising from the chemical</b>	Considered low risk due to water content, however upon evaporation of water the product is combustible.
<b>Hazchem Code</b>	2X
<b>Other Information</b>	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

### 6. Accidental release measures

<b>Spills &amp; Disposal</b>	Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.

### 7. Handling and storage

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<b>Precautions for Safe Handling</b>	Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Store in a locked enclosure. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No exposure standard has been established for this product. The manufacturer has recommended the following exposure standard for lambda-cyhalothrin: TLV (TWA) 0.04 mg/m <sup>3</sup> , STEL - mg/m <sup>3</sup> SK. 'SK' notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.
<b>Appropriate engineering controls</b>	The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m <sup>3</sup> , as total hydrocarbon. Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles. Re-entry period: Do not enter treated area until spray has dried.
<b>Hygiene Measures</b>	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
<b>Requirements Concerning Special Training</b>	After each day's use, wash contaminated clothing and safety equipment. Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Beige Liquid
<b>Solubility in Water</b>	Disperses in water.
<b>Specific Gravity</b>	1.089 - 1.098
<b>pH</b>	4-7 (1% aqueous solution)
<b>Vapour Pressure</b>	2 x 10 <sup>-4</sup> mPa (lambda-cyhalothrin)
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 7 (lambda-cyhalothrin)
<b>Flammability</b>	Non combustible material.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat) 210 mg/kg for the formulated product
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2000 mg/kg for the formulated product
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) 3.12 mg/l for a similar formulation
<b>Ingestion</b>	Possible symptoms of exposure to the concentrate include: nausea, vomiting and abdominal pains.
<b>Inhalation</b>	May cause irritation to the respiratory tract.

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<b>Skin</b>	May irritate the skin. Exposure to lambda-cyhalothrin can result in sensations of tingling especially in the face. The effects are transient and generally disappear in one to two days. Topical application of vitamin E cream is effective in reducing discomfort. Prolonged contact with the concentrate may result in absorption of lambda-cyhalothrin in harmful amounts, however possible exposure is reduced by encapsulation of the active ingredient. Allowing the product to dry on the skin, or contact with hot water/vapours used to wash equipment removes the advantage of the microcapsule.
<b>Eye</b>	May irritate the eyes.
<b>Skin Sensitisation</b>	This product is a skin sensitiser.
<b>Carcinogenicity</b>	An impurity present in the solvent has been found to cause tumors in laboratory studies. The active ingredient(s), lambda-cyhalothrin is not considered carcinogenic.
<b>Serious eye damage/irritation</b>	May be slightly irritant.
<b>Skin corrosion/irritation</b>	Slight irritant.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for lambda-cyhalothrin for a human is 0.001 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Aust Govt Dept. of Health, Office of Chemical Safety, 'ADI List', December 2014).

## 12. Ecological information

<b>Known Harmful Effects on the Environment</b>	The active ingredient lambda-cyhalothrin is highly toxic to fish and aquatic organisms.
<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product. Should not be applied while bees are actively foraging.
<b>Environmental Protection</b>	Severe marine pollutant. Spray drift should be avoided, read the label for more information.
<b>Acute Toxicity - Fish</b>	The following is data for the active ingredient, lambda-cyhalothrin. Toxic to fish. LC50 (96hr) for rainbow trout is 0.00036 mg/l. LC50 (96hr) for bluegill sunfish is 0.00021 mg/l.
<b>Acute Toxicity - Daphnia</b>	LC50 (48hr) for daphnia is 0.00036 mg/l.
<b>Acute Toxicity - Other Organisms</b>	Birds: Not toxic to birds. LD50 for mallard ducks is >3,950 mg/kg Highly toxic to bees both by direct contact or by ingestion.

## 13. Disposal considerations

<b>Product Disposal</b>	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
<b>Container Disposal</b>	Do not use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm 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. drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER

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symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

## 14. Transport information

<b>U.N. Number</b>	3352
<b>UN proper shipping name</b>	PYRETHROID PESTICIDE, LIQUID, TOXIC - (contains Lambda-cyhalothrin)
<b>Transport hazard class(es)</b>	6.1
<b>Hazchem Code</b>	2X
<b>Packaging Method</b>	3.8.6.1
<b>Packing Group</b>	III
<b>Storage and Transport IERG Number</b>	Considered dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail. 35
<b>UN Number (Sea Transport)</b>	3352
<b>IMO Class/Packing Group</b>	Class 6.1; Packing Group III
<b>IMO Marine Pollutant</b>	Marine Pollutant
<b>IMO Proper Shipping Name</b>	PYRETHROID PESTICIDE, LIQUID, TOXIC (contains Lambda-cyhalothrin)

## 15. Regulatory information

<b>Regulatory Information</b>	WHS Schedule 11, item 35: Acute toxicity (oral) category 3 .
<b>Poisons Schedule</b>	S6
<b>Packaging &amp; Labelling</b>	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Other Information</b>	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 54227.

## 16. Other Information

<b>Date of preparation or last revision of SDS</b>	03/07/2017
<b>Contact Person/Point</b>	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498
<b>Revisions Highlighted</b>	The SDS was reviewed. Minor changes were made to the information and product has been rebranded.
<b>Other Information</b>	® Registered trademark of Syngenta Limited ...End Of MSDS...

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