

Infosafe No™ 3NUYB	Issue Date : June 2017	ISSUED by NUFARM
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 Product Name **AXE Insecticide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	AXE Insecticide
<b>Product Code</b>	5104
<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 caterpillar pests of cereals, field peas, linseed, ornamentals, sugar cane, tobacco and vegetables as specified in 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>	OT4 Acute Toxicity - Oral: Category 4 IT 4 Acute Toxicity - Inhalation: Category 4 SS-1 Sensitization - Skin: Category 1 ED1 Eye Damage/Irritation: Category 1 SE-3RES STOT Single Exposure Category 3 (respiratory tract irritation) SC-2 Skin Corrosion/Irritation: Category 2 CA2 Carcinogenicity: Category 2 AH1 Aspiration Hazard: Category 1 SE-3NARC STOT Single Exposure Category 3 (narcotic) FL4 Flammable Liquids: Category 4
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed. H332 Harmful if inhaled. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. H315 Causes skin irritation. H351 Suspected of causing cancer. H304 May be fatal if swallowed and enters airways. AUH066 Repeated exposure may cause skin dryness or cracking. H336 May cause drowsiness or dizziness. H227 Combustible liquid
<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>	Corrosion, Exclamation mark, Health hazard, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



<b>Precautionary statement – Prevention</b>	P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P261 Avoid breathing spray. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective clothing, gloves and eye/face protection. P210 Keep away from flames and hot surfaces. - No smoking.
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**Precautionary statement – Response**

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.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor/physician.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.

**Other Information** Poisons Schedule S6

### 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Permethrin	52645-53-1	500 g/L
	Liquid Hydrocarbon	64742-94-5	396 g/L
	Anionic Surfactant		0-10 %
	Other ingredients (considered non-hazardous)		0-10 %

### 4. First-aid measures

**Inhalation** Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.

**Ingestion** 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.

**Skin** Remove contaminated clothing and launder before re-use.  
 Wash affected areas thoroughly with soap and water.

**Eye contact** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.  
 Seek medical advice if irritation develops or persists.

**Advice to Doctor** Treat symptomatically.  
 Exposure to permethrin 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.

### 5. Fire-fighting measures

**Suitable extinguishing media** Water fog, foam, carbon dioxide or dry chemical.

**Hazards from Combustion Products** May emit hazardous smoke and fumes if involved in fires or exposed to extreme heat.

**Special Protective Equipment for fire fighters** Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

**Other Information** STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

### 6. Accidental release measures

**Spills & Disposal** 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.

**Personal Protection** For appropriate personal protective equipment (PPE), refer Section 8.

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<b>Environmental Precautions</b>	Prevent product or washings from entering drains, waterways or sewers.
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## 7. Handling and storage

<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. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.
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## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m <sup>3</sup> ; 17ppm TWA, as total hydrocarbon. No exposure standard for this product has been set, however, an exposure standard has been recommended by the manufacturer for permethrin at (TWA) 5 mg/m <sup>3</sup> .
<b>Appropriate engineering controls</b>	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.
<b>Hygiene Measures</b>	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.
<b>Requirements Concerning Special Training</b>	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>	Clear brown coloured liquid.
<b>Solubility in Water</b>	Forms an emulsion in water.
<b>Specific Gravity</b>	1.05
<b>pH</b>	6.5 - 7.5
<b>Vapour Pressure</b>	0.002 mPa @ 20°C
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 6.1
<b>Flash Point</b>	71°C
<b>Flammability</b>	Combustible liquid C1. (AS1940). Combustible Liquid (GHS).

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Keep away from strong oxidising agents.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat) 436 mg/kg for permethrin
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2000 mg/kg for permethrin
<b>Ingestion</b>	Possible symptoms of exposure include: nausea, vomiting, central nervous system depression and a burning or itching sensation.
<b>Inhalation</b>	Breathing in high concentrations of vapour can produce central nervous system depression, which can lead to loss of coordination, impaired judgement and if exposure is prolonged, unconsciousness. Breathing in high concentrations of aerosols of this material may have the effects above for vapour and, in addition, may cause nausea and irritation of

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<b>Skin</b>	the nose, throat and respiratory tract. Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis. Exposure to permethrin 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.
<b>Eye</b>	A severe eye irritant.
<b>Skin Sensitisation</b>	Skin contact may produce skin sensations such as numbing, burning and tingling. These sensations are reversible and usually subside within 12 hours.
<b>Carcinogenicity</b>	An impurity present in the solvent has been found to cause tumors in laboratory studies. The active ingredient(s), permethrin is not considered carcinogenic.
<b>Reproductive Toxicity</b>	Data indicates no reproductive effects.
<b>Mutagenicity</b>	Data indicates no mutagenic effects.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for permethrin for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 5 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', March 2016).

## 12. Ecological information

<b>Known Harmful Effects on the Environment</b>	Permethrin products do not appear to pose any threat to birds. The product is a marine pollutant for sea transport.
<b>Other Precautions</b>	Dangerous to bees. Do not spray on vegetation where honeybees are foraging.
<b>Environmental Protection</b>	Spray drift should be avoided, read the label for more information.
<b>Acute Toxicity - Fish</b>	The following is data for the active ingredient, permethrin. LC50 (96hr) for rainbow trout is 0.0025 mg/l. LC50 (96hr) for bluegill sunfish is 0.0018 mg/l.
<b>Acute Toxicity - Daphnia</b>	EC50 (48hr) for daphnia is 0.0006 mg/l.
<b>Acute Toxicity - Other Organisms</b>	Birds: Not toxic to birds. LD50 for mallard duck is >9800 mg/kg Bees: Toxic to bees. LD50 is 0.03 µg/bee.

## 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.

## 14. Transport information

<b>Storage and Transport</b>	Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.  For bulk shipments as Class 9, use UN 3082, HazChem code 2Z.
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<b>UN Number (Sea Transport)</b>	3082
<b>IMO Class/Packing Group</b>	Class 9; Packing Group III.
<b>IMO Marine Pollutant</b>	Marine Pollutant
<b>IMO Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Permethrin)

## 15. Regulatory information

<b>Regulatory Information</b>	WHS Schedule 11: item 10 - Flammable Liquid category 4 .
<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: 54245.

## 16. Other Information

<b>Date of preparation or last revision of SDS</b>	14/06/2017
<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. ...End Of MSDS...

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