

Infosafe No™ 3NU5H Issue Date :February 2010 ISSUED by NUFARM CS: 1.4.21

Product Name **ADONIS® 3UL Insecticide**

Not classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name ADONIS® 3UL Insecticide
Product Code 1005
Product Type Group 2B Insecticide
Company Name NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address 103-105 Pipe Road Laverton North
Victoria 3026 Australia
Emergency Tel. 1800 033 498 (24hr Australia)
Telephone/Fax Number Tel: +61 3 9282-1000
Fax: +61 3 9282-1001
Recommended Use For the control of locusts and grasshoppers in pasture and sorghum as specified in the Directions for Use table on the label.
Nufarm ADONIS 3UL Insecticide is supplied for use by the Australian Plague Locust Commission (APLC) or the appropriate Government Authority undertaking locust control.
Other Information This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. HAZARDS IDENTIFICATION

Hazard Classification Not classified as hazardous
NON-HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s) Not classified as hazardous
Other Information Poisons Schedule S5

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Liquid

Ingredients	Name	CAS	Proportion
	Fipronil	120068-37-3	3 g/L
	Inert fillers		>60%
	Diacetone alcohol	123-42-2	125 g/L

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.
If symptoms develop or persist, seek medical advice.
Ingestion 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.
The fipronil component in the product is at very low concentration, thus acute health effects are unlikely to occur other than by massive exposure.
Skin If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water.
Eye If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
Seek medical advice immediately.
First Aid Facilities If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor Fipronil is a reversible gamma-aminobutyric (GABA) receptor inhibitor. During intoxication it will induce neurological stimulation with possible convulsions. Treat symptoms. No specific antidote known. Phenobarbital, and



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to a lesser extent, benzodiazepines, have been shown experimentally to be effective in preventing convulsions induced by fipronil. Due to slow absorption of fipronil through the gut, symptoms of intoxication may be delayed several hours to one day. Absorption may be decreased by the use of gastric lavage, saline purgative and activated charcoal (possible enterohepatic recirculation). Continue monitoring - due to slow elimination of the compound.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Water fog, foam, carbon dioxide or dry chemical.

Hazards from Combustion If involved in a fire, it will emit oxides of carbon, nitrogen and sulphur and possibly compounds of chlorine and flourine.

Products

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.

7. HANDLING AND STORAGE

Conditions for Safe Storage Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Diacetone alcohol			238	50	
Engineering Controls	Use in a well ventilated area only.					
Personal Protective Equipment	It is good practice to wear suitable personal protective equipment (PPE). 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 goggles. Re-entry period: Do not enter treated area until spray has dried.					
Hygiene Measures	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.					
Requirements Concerning Special Training	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

Form Liquid

Appearance Clear yellow liquid

Odour Slight ketone odour

Solubility in Water 1.9 mg/l for fipronil

Specific Gravity 0.914 g/ml @ 20°C

Vapour Pressure 3.7 x 10⁻⁴ mPa @ 25°C for fipronil

Octanol/Water Partition Coefficient Kow Log P is 4.0 for fipronil

Flash Point 74°C

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Flammability Combustible liquid C1.

Other Information Ultra Low Volume Liquid

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Hazardous Reactions Keep away from strong oxidising agents.

Hazardous Polymerization Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION

Inhalation Inhalation of vapours or mists of this very dilute material is unlikely to result in any toxic effects attributable to fipronil.

Ingestion Possible symptoms of exposure include: headache, nausea, dizziness and weakness.

Skin Ingestion of large quantities of the concentrate may result in convulsions. Not a skin irritant and not harmful by dermal exposure.

Eye May irritate the eyes.

Reproductive Toxicity Data indicates no reproductive effects.

Mutagenicity Data indicates no mutagenic effects.

Carcinogenicity Data indicates no carcinogenic effects.

Acute Toxicity - Oral LD50 (rat) 3208 mg/kg for the formulated product

Acute Toxicity - Dermal LD50 (rat) 4000 mg/kg for the formulated product

Eye Irritation Mild eye irritant.

Skin Sensitisation Product is not a skin sensitiser.

Other Information The Australian Acceptable Daily Intake (ADI) for fipronil for a human is 0.0002 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.02 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: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', December 2008).

12. ECOLOGICAL INFORMATION

Known Harmful Effects on the Environment The active ingredient fipronil is highly toxic to fish and aquatic organisms.

Other Precautions 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.

Environ. Protection Spray drift should be avoided, read the label for more information.

Acute Toxicity - Fish The following is data for the active ingredient, fipronil.

LC50 (96hr) for rainbow trout is 0.248 mg/l.

LC50 (96hr) for european carp is 0.430 mg/l.

LC50 (96hr) for bluegill sunfish is 0.085 mg/l.

Acute Toxicity - Daphnia LC50 (48hr) for daphnia is 0.19 mg/l for fipronil.

Acute Toxicity - Other Organisms The following data is for the active ingredient, fipronil.

LD50 for mallard duck is 5000 mg/kg

LD50 for bobwhite quail is 48 mg/kg

Highly toxic to bees both by direct contact or by ingestion.

13. DISPOSAL CONSIDERATIONS

Product Disposal 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®).

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Container Disposal Do not use this container for any other purpose.
Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.
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 symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.
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.
Returnable containers: empty contents fully into application equipment.
Replace cap, close all valves and return to the point of supply for refill or storage.

14. TRANSPORT INFORMATION

Transport Information Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Storage and Transport Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

Poisons Schedule S5
Packaging & Labelling CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING
AICS (Australia) All of the components in this product are listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS Revised 01/02/2010
Contact Person/Point Normal Hours: Mr Volker Maier Phone: +61 3 9282 1000
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Revisions The MSDS was reviewed. Minor changes were made to the information.
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