

Infosafe No™ 3NU5B	Issue Date : April 2016	ISSUED by NUFARM
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 Product Name **KAMBA 500 Selective Herbicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	KAMBA 500 Selective Herbicide
<b>Product Code</b>	0150
<b>Product Type</b>	Group I Herbicide
<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 broadleaf weeds in winter cereals, pastures, conservation tillage, sugar-cane, turf, rice and non-crop areas 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>	ED1 Eye Damage/Irritation: Category 1
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H318 Causes serious eye damage.
<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, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



<b>Precautionary statement – Prevention</b>	P280 Wear protective gloves, clothing, eye and face protection.
<b>Precautionary statement – Response</b>	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.
<b>Other Information</b>	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>
	Dicamba (present as dimethylamine salt)	1918-00-9	500 g/L
	Water		30-50 %

## 4. First-aid measures

<b>Inhalation</b>	Remove affected person to fresh air until recovered. Obtain medical advice.
<b>Ingestion</b>	Rinse mouth thoroughly with water. If swallowed do NOT induce vomiting; seek medical advice immediately and

Infosafe No™ 3NU5B	Issue Date : April 2016	ISSUED by NUFARM
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<b>Skin</b>	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. Wash affected areas thoroughly with soap and water.
<b>Eye contact</b>	Remove contaminated clothing and launder before re-use. If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
<b>First Aid Facilities</b>	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
<b>Advice to Doctor</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion Products</b>	Non-combustible. If involved in a fire, it will emit hydrogen chloride and possibly organochlorine compounds.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
<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. Dispose of at a landfill in accordance with local regulations.
<b>Clean-up Methods - Large Spillages</b>	Place damaged containers in recovery bins (if available) and return to manufacturer.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Do NOT spray in high winds. Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight. 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 biological exposure limit allocated. No exposure standard has been established for this product.
<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>	Amber liquid
<b>Odour</b>	Mild amine odour

Infosafe No™ 3NU5B	Issue Date : April 2016	ISSUED by NUFARM
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<b>Melting Point</b>	-5°C
<b>Boiling Point</b>	~108°C
<b>Solubility in Water</b>	Soluble in water.
<b>Specific Gravity</b>	1.185 @ 20°C
<b>pH</b>	8 - 9
<b>Volatile Component</b>	~ 40%
<b>Flammability</b>	Non combustible material.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Incompatible Materials</b>	Reaction of the concentrate or spray mix with acids will precipitate solid dicamba and largely de-activate the product and cause blockages in spray equipment. The addition of a strong alkali such as caustic soda will cause release of dimethylamine vapour. Dimethylamine is moderately toxic, LD50 (oral, rat) is 700 mg/kg and a TLV of 2 ppm (TWA) has been set.
<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>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this MSDS are followed.
<b>Acute Toxicity - Oral</b>	LD50 (rat) 1707 mg/kg for dicamba
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >2000 mg/kg for dicamba
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >9.6 mg/l for dicamba
<b>Ingestion</b>	The concentrate is of low toxicity if swallowed.
<b>Inhalation</b>	Not a likely route of exposure when handling the concentrate. When applying the product as a spray avoid breathing in spray mist.
<b>Skin</b>	Will irritate the skin.
<b>Eye</b>	A severe eye irritant. Prolonged contact with the concentrate may cause damage to the eye.
<b>Carcinogenicity</b>	Data indicates no carcinogenic effects.
<b>Reproductive Toxicity</b>	Data indicates no reproductive effects. Data indicates no teratogenic effects.
<b>Chronic Effects</b>	Myotoxic muscular spasms, urinary incontinence and if excessive, dyspnea, cyanosis and exhaustion.
<b>Mutagenicity</b>	Data indicates no mutagenic effects.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for dicamba for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 3 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 2015).

## 12. Ecological information

<b>Persistence and degradability</b>	Loss from soil is principally by microbial degradation. Average field half life of dicamba is 14 days.
<b>Known Harmful Effects on the Environment</b>	Dicamba products do not appear to pose any threat to birds. Dicamba products do not appear to pose any threat to fish or other aquatic organisms other than in very high concentrations.

Infosafe No™ 3NU5B	Issue Date : April 2016	ISSUED by NUFARM
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<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
<b>Environmental Protection</b>	Spray drift can cause damage, read the label for more information.
<b>Acute Toxicity - Fish</b>	LC50 (96hr) for rainbow trout and bluegill sunfish is 135 mg/l for dicamba
<b>Acute Toxicity - Daphnia</b>	LC50 (48hr) for daphnia is 110 mg/l for dicamba.
<b>Acute Toxicity - Algae</b>	EC50 for Pseudokirchneriella subcapitata is >3.7 mg/l.
<b>Acute Toxicity - Other Organisms</b>	Bees: Not toxic to bees. LD50 for dicamba is >100 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, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. 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 symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program. 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

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>Storage and Transport</b>	Considered non dangerous for road and rail transport by the Australian Code for the Transport of Dangerous Goods (ADG Code), by sea (IMDG Code) and by air (IATA code).

### 15. Regulatory information

<b>Regulatory Information</b>	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
<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: 51080.

### 16. Other Information

<b>Date of preparation or last revision of SDS</b>	Revised 27/04/2016. This SDS replaces document dated June 2011.
<b>Contact Person/Point</b>	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498



# Safety Data Sheet

infosafe  
CS: 1.7.2

Page: 5 of 5

Infosafe No™ 3NU5B

Issue Date : April 2016

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## Revisions

The SDS was reviewed to include GHS requirements.

## Highlighted

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