

Infosafe No™ NU01B	Issue Date : April 2016	ISSUED by NUFARM
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 Product Name **KAMBA M Selective Herbicide**

Classified as hazardous

1. Identification

GHS Product Identifier	KAMBA M Selective Herbicide
Product Code	0160
Product Type	Group I Herbicide
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address	103-105 Pipe Road Laverton North Victoria 3026 Australia
Telephone/Fax Number	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
Emergency phone number	1800 033 498 (24hr Australia)
Recommended use of the chemical and restrictions on use	For the control of certain broadleaf weeds in winter cereals, pastures, turf and non-crop areas as listed in The Directions for Use table on the label.
Other Information	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

GHS classification of the substance/mixture	ED1 Eye Damage/Irritation: Category 1
Signal Word (s)	DANGER
Hazard Statement (s)	H318 Causes serious eye damage.
General Precautionary Statement (s)	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.
Pictogram (s)	Corrosion, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention	P280 Wear protective gloves, clothing, eye and face protection.
Precautionary statement – Response	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.
Other Information	Poisons Schedule S5

3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	MCPA (present as the dimethylamine salt)	94-74-6	340 g/L
	Dicamba (present as dimethylamine salt)	1918-00-9	80 g/L
	Water		to 100%

4. First-aid measures

Inhalation	Remove affected person to fresh air until recovered. Obtain medical advice.
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Ingestion	Rinse mouth thoroughly with 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	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	Non-combustible. If involved in a fire, it will emit hydrogen chloride and possibly organochlorine compounds.
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. Dispose of at a landfill in accordance with local regulations.
Clean-up Methods - Large Spillages	Place damaged containers in recovery bins (if available) and return to manufacturer.

7. Handling and storage

Precautions for Safe Handling	Do NOT spray in high winds. Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.
Conditions for safe storage, including any incompatibilities	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.
Other Information	Equipment that has been used for this chemical should not be used for the application of other materials to sensitive plants, unless it has been well washed out with hot soapy water or 1% solution of ammonia, followed by several clear water rinses. Do not use on or in situations where damage to susceptible crops or plants such as cotton, tobacco, tomatoes, flowers, vines, fruit trees or other susceptible crop plants may result from direct application or drift. Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	No biological exposure limit allocated. No exposure standard has been established for this product.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	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.
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.

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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.
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9. Physical and chemical properties

Form	Liquid
Appearance	Amber liquid
Odour	Mild amine odour
Melting Point	<0
Boiling Point	100°C (water)
Solubility in Water	Soluble in water.
Specific Gravity	1.116 @ 20°C
pH	pH 8.5 - 9.0 (for product as is)
Volatile Component	~ 50%
Flammability	Non combustible material.

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Incompatible Materials	Reaction of the concentrate or spray mix with acids will precipitate solid dicamba and MCPA 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.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Toxicology Information	No harmful effects are expected if the precautions on the label and this MSDS are followed.
Acute Toxicity - Oral	LD50 (rat) 1707 mg/kg for dicamba LD50 (rat) 700 mg/kg for MCPA LD50 (mice) 550 mg/kg for MCPA
Acute Toxicity - Dermal	LD50 (rabbit) >2000 mg/kg for dicamba LD50 (rat) >1000 mg/kg for MCPA
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >9.6 mg/l for dicamba LC50 (rat) (4hr) >6.36 mg/l for MCPA
Ingestion	The concentrate is harmful if swallowed.
Inhalation	Not a likely route of exposure when handling the concentrate. When applying the product as a spray avoid breathing in spray mist.
Skin	Will irritate the skin.
Eye	The concentrate will cause severe irritation and possible damage unless washed off immediately.
Carcinogenicity	The weight of the evidence is that dicamba is not carcinogenic.
Reproductive Toxicity	Data indicates no reproductive effects. Data indicates no teratogenic effects. Information is for dicamba.
Chronic Effects	Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of MCPA.
Serious eye damage/irritation	Kamba M is a severe eye irritant. Risk of serious damage to eyes.
Mutagenicity	Data indicates no mutagenic effects.

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Skin corrosion/irritation	Mild skin irritant.
Other Information	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). ADI for MCPA is 0.01 mg/kg/day, NOEL 1.1 mg/kg/day.

12. Ecological information

Persistence and degradability	Loss from soil is principally by microbial degradation. Average field half life of dicamba is 14 days. Average field half life of MCPA is 7 days.
Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product. Spray drift can cause damage, read the label for more information.
Environmental Protection	
Acute Toxicity - Fish	LC50 (96hr) for rainbow trout and bluegill sunfish is 135 mg/l for dicamba LC50 (96hr) for rainbow trout is 50 - 560 mg/l for MCPA LC50 (96hr) for bluegill sunfish is >135 mg/l for MCPA
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is 110 mg/l for dicamba. LC50 (48hr) for daphnia is >190 mg/l for MCPA.
Acute Toxicity - Other Organisms	Bees: Not toxic to bees. LD50 for dicamba is >100 µg/bee. Bees: Not toxic to bees. LD50 for MCPA is 104 µg/bee. LD50 for bobwhite quail is 377 mg/kg for MCPA Low toxicity to birds.

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®).
Container Disposal	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.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
Storage and Transport	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

Regulatory Information	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
Poisons Schedule	S5

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Packaging & Labelling	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Other Information	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 49906.

16. Other Information

Date of preparation or last revision of SDS	Revised 27/04/2016. This SDS replaces document dated June 2011.
Contact Person/Point	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498
Revisions Highlighted	The SDS was reviewed to include GHS requirements. ...End Of MSDS...

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