

Infosafe No™ NU01B	Issue Date : March 2021	ISSUED by NUFARM
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 Product Name **KAMBA M Selective Herbicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	KAMBA M Selective Herbicide
<b>Product Code</b>	0160
<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
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>E-mail Address</b>	SDSANZ@nufarm.com
<b>Recommended use of the chemical and restrictions on use</b>	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.
<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>	Eye damage/irritation: Category 1 Skin corrosion/irritation: Category 2
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H315 Causes skin irritation H318 Causes serious eye damage
<b>Precautionary statement – General</b>	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions.
<b>Pictogram (s)</b>	Corrosion, Exclamation mark



<b>Precautionary statement – Prevention</b>	P280 Wear eye protection/face protection/protective gloves. P264 Wash hands and exposed skin thoroughly after handling.
<b>Precautionary statement – Response</b>	P302+P352 IF ON SKIN: Wash with plenty of water. 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/doctor. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.
<b>Other Information</b>	Poisons Schedule S5

## 3. Composition/information on ingredients

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
	Non-hazardous ingredients		<65%

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#### 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 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>	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
<b>Eye contact</b>	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>	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

<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.

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<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
<b>Melting Point</b>	<0
<b>Boiling Point</b>	100°C (water)
<b>Solubility in Water</b>	Soluble in water.
<b>Specific Gravity</b>	1.116 @ 20°C
<b>pH</b>	pH 8.5 - 9.0 (for product as is)
<b>Volatile Component</b>	~ 50%
<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 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.
<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 LD50 (rat) 700 mg/kg for MCPA LD50 (mice) 550 mg/kg for MCPA
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >2000 mg/kg for dicamba LD50 (rat) >1000 mg/kg for MCPA
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >9.6 mg/l for dicamba LC50 (rat) (4hr) >6.36 mg/l for MCPA
<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>	The concentrate will cause severe irritation and possible damage unless washed off immediately.
<b>Carcinogenicity</b>	The weight of the evidence is that dicamba is not carcinogenic.

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<b>Reproductive Toxicity</b>	Data indicates no reproductive effects. Data indicates no teratogenic effects. Information is for dicamba.
<b>Chronic Effects</b>	Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of MCPA.
<b>Serious eye damage/irritation</b>	Kamba M is a severe eye irritant. Risk of serious damage to eyes.
<b>Mutagenicity</b>	Data indicates no mutagenic effects.
<b>Skin corrosion/irritation</b>	Irritant
<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 APVMA, 'ADI List', April 2020). ADI for MCPA is 0.01 mg/kg/day, NOEL 1.1 mg/kg/day.

## 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. Average field half life of MCPA is 7 days.
<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 LC50 (96hr) for rainbow trout is 50 - 560 mg/l for MCPA LC50 (96hr) for bluegill sunfish is >135 mg/l for MCPA
<b>Acute Toxicity - Daphnia</b>	LC50 (48hr) for daphnia is 110 mg/l for dicamba. LC50 (48hr) for daphnia is >190 mg/l for MCPA.
<b>Acute Toxicity - Other Organisms</b>	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

<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.

## 14. Transport information

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<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) and by sea (IMDG Code).

## 15. Regulatory information

<b>Regulatory Information</b>	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
<b>Poisons Schedule</b>	S5
<b>Packaging &amp; Labelling</b>	CAUTION 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: 49906.

## 16. Other Information

<b>Date of preparation or last revision of SDS</b>	Reviewed 22/03/2021
<b>Contact Person/Point</b>	Normal Hours: SDS Coordinator Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498 ...End Of MSDS...

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