



SAFETY DATA SHEET

Nufarm Kamba M Herbicide

Infosafe No.: NU01B
ISSUED Date : 22/07/2022
ISSUED by: NUFARM AUSTRALIA LIMITED.

1. Identification

GHS Product Identifier

Nufarm Kamba M Herbicide

Product Code

0160

Product Type

Group 4 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

Emergency phone number

1800 033 498 (24hr Australia)

Emergency Contact Name

www.nufarm.com.au

E-mail Address

SDSANZ@nufarm.com

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.

Disclaimer

This Safety Data Sheet describes the properties of the intermediate 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

Eye Damage/Irritation: Category 1

Skin Corrosion/Irritation: Category 2

Signal Word (s)

DANGER

Hazard Statement (s)

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statement – General

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, Exclamation mark

**Precautionary statement – Prevention**

P264 Wash contaminated skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

P302+P352 IF ON SKIN: Wash with plenty of soap and 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 or doctor/physician.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

Other Information

Poisons Schedule S5

3. Composition/information on ingredients

Ingredients

Name	CAS	Proportion
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 %

4. First-aid measures

Inhalation

Remove affected person to fresh air until recovered.

Obtain medical advice.

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

Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.

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.

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

Properties	Description	Properties	Description
Form	Liquid	Appearance	Amber liquid
Odour	Mild amine odour	Melting Point	<0
Boiling Point	100°C	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 (mice) 550 mg/kg for MCPA

LD50 (rat) 1707 mg/kg for dicamba

LD50 (rat) 700 mg/kg for MCPA

Acute Toxicity - Inhalation

LC50 (rat) (4hr) >6.36 mg/l for MCPA

LC50 (rat) (4hr) >9.6 mg/l for dicamba

Acute Toxicity - Dermal

LD50 (rat) >1000 mg/kg for MCPA

LD50 (rabbit) >2000 mg/kg for dicamba

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.

Skin corrosion/irritation

Mild skin irritant.

Serious eye damage/irritation

Kamba M is a severe eye irritant.

Risk of serious damage to eyes.

Mutagenicity

Data indicates no mutagenic effects.

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.

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 APVMA, 'ADI List', April 2020).

ADI for MCPA is 0.01 mg/kg/day, NOEL 1.1 mg/kg/day.

12. Ecological information

Persistence and degradability

Average field half life of dicamba is 14 days.

Loss from soil is principally by microbial degradation.

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.

Environmental Protection

Spray drift can cause damage, read the label for more information.

Acute Toxicity - Fish

LC50 (96hr) for bluegill sunfish is >135 mg/l for MCPA

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

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.

Low toxicity to birds.

LD50 for bobwhite quail is 377 mg/kg for MCPA

Bees: Not toxic to bees. LD50 for MCPA is 104 µg/bee.

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 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.

Empty containers and product should not be burnt.

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.

14. Transport information

Transport Information

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

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None Allocated

Storage and Transport

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

Regulatory information

Australia: WHS regulations (2011) - Schedule 11: classification not listed.

Poisons Schedule

S5

Packaging & Labelling

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Australia (AICS)

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 SDS

Revised 22/07/2022

Contact Person/Point

Normal Hours: SDS Coordinator Phone: +61 3 9282 1000

After Hours: Shift Supervisor Phone: 1800 033 498

Revisions Highlighted

The MSDS was reviewed. Minor changes were made to the information.

END OF SDS

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