

# **Material Safety Data Sheet**

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Infosafe No. 3NU5B Issue Date: January 2005 ISSUED by NUFARM

Product Name: KAMBA 500 Selective Herbicide

Classified as hazardous according to criteria of NOHSC

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name KAMBA 500 Selective Herbicide

**Product Code** 0150

**Product Use** For the control of certain broadleaf weeds in winter cereals, pastures,

conservation tillage, sugar-cane, turf, rice, grain sorghum and non-crop areas.

Company Name NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)

Address 103-105 Pipe Road Laverton North

Victoria 3026 Australia

**Emergency Tel.** 24hr 1800 033 498

**Telephone/Telex** Tel: (03) 9282-1000 Fax: (03) 9282-1001

Number

Product Type Group I Herbicide

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. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Liquid

Characterization

Ingredients Name CAS Proportion

Dicamba (present as 1918-00-9 500 g/L

dimethylamine salt)

Water 30-50 %

#### 3. HAZARDS IDENTIFICATION

Irritating to eyes.

Other Information Poisons Schedule S6

### 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 If in eyes, hold eyelids open and wash with copious amounts of water for at least

15 minutes.

(Australia).

#### 5. FIRE FIGHTING MEASURES

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

Hazardous Non-combustible.

Combustion Products If involved in a fire, it will emit hydrogen chloride and possibly organochlorine

compounds.

Emergency Action in If exposed to fire, keep container cool by spraying with water fog.

case of Fire



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Protective Equipment Breathable air apparatus may have to be worn if material is involved in fires

especially in confined spaces.

**Other Information** Prevent 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.

Place damaged containers in recovery bins (if available) and return to

manufacturer. Large Spillages

Clean-up Methods -

7. HANDLING AND STORAGE

Handling Do NOT spray in high winds. Do NOT contaminate dams, rivers or streams, or any other water bodies with

pesticide or used containers.

Store in the closed, original container in a dry, cool well ventilated area out of Storage

direct sunlight.

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

foodstuffs.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

**Exposure Limits** No biological exposure limit allocated.

No exposure standard has been established for this product.

**Personal Protective** 

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 **Equipment** 

PVC gloves and face shield or goggles.

**Eng. Controls** Handle in well ventilated areas, generally natural ventilation is adequate.

After use and before eating, drinking or smoking, wash hands, arms and face **Hygiene Measures** 

thoroughly with soap and water.

After each day's use, wash contaminated clothing and safety equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Amber liquid Appearance Odour Mild amine odour

**Melting Point** -5°C

Solubility in Water Soluble in water.

**Boiling Point** ~108°C

**Specific Gravity** 1.185 @ 20°C

(H2O=1)

Vapour Pressure Dicamba salt is not volatile.

**Volatile Component** ~ 40%

**Flammability** Non combustible material.

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Hazardous Hazardous polymerisation is not possible.

**Polymerization** 



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Materials to Avoid Reaction of the concentrate or spray mix with acids will

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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

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ppm (TWA) has been set.

Hazardous Reaction Keep away from strong oxidising agents.

#### 11. TOXICOLOGICAL INFORMATION

Toxicology No harmful effects are expected if the precautions on the label and this MSDS are

Information followed

Inhalation Not a likely route of exposure when handling the concentrate.

When applying the product as a spray avoid breathing in spray mists.

Skin Will irritate the skin.

Eye Will irritate the eyes.

Prolonged contact with the concentrate may cause damage to the eye.

Chronic Effects Myotoxic muscular spasms, urinary incontinence and if excessive, dyspnea, cyanosis

and exhaustion.

Reproductive Toxicity Data indicates no reproductive effects.

Data indicates no teratogenic effects.

Mutagenicity
Data indicates no mutagenic effects.

Carcinogenicity
Data indicates no carcinogenic effects.

Acute Toxicity - Oral LD50 (rat) 1707 mg/kg for dicamba

Acute Toxicity - LD50 (rabbit) >2000 mg/kg for dicamba

Dermal

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

Inhalation

Eye Irritation The product is an eye irritant.

Skin 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:

Comm. Dept. of Health and Ageing, 'ADI List', TGA, June 2004).

#### 12. ECOLOGICAL INFORMATION

 $Known \ Harmful$  Dicamba products do not appear to pose any threat to birds.

Effects on the Dicamba products do not appear to pose any threat to fish or other aquatic

Environment organisms other than in very high concentrations.

Other Precautions Do not contaminate dams, waterways or sewers with this product or the containers

which have held this product.

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

Persistence / Loss from soil is principally by microbial degradation.

Degradability Average field half life of dicamba is 14 days.

Acute Toxicity - Fish LC50 (96 hr) for rainbow trout and bluegill sunfish is 135 mg/l for dicamba

Acute Toxicity - LC50 (48 hr) for daphnia is 110 mg/l for dicamba.

Daphnia

Acute Toxicity - Other Bees: Not toxic to bees. LD50 for dicamba is >100 µg/bee.

**Organisms** 



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## 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 (ChemCollect).

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 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.

### 14. TRANSPORT INFORMATION

It is good practice to separate this product from food, food related materials,

animal feedstuffs, seed or fertilisers during transport.

U.N. Number None Allocated Proper Shipping None Allocated

Name DG Class

None Allocated

Hazchem Code None Allocated Packing Group None Allocated

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

Risk Phrase R36 Irritating to eyes.

Safety Phrase S2 Keep out of reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

Poisons Schedule S6

Hazard Category Irritant
Packaging & POISON

Labelling 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

Contact Person/Point Normal Hours: Mr Volker Maier Phone: (03) 9282 1000

After Hours: Shift Supervisor Phone: 1800 033 498

Revisions Highlighted The MSDS was reviewed. Minor changes were made to the information. The MSDS is now

issued in a 16 header format.

...End Of MSDS...

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