

Infosafe No™ 3NV3W Issue Date : October 2019 ISSUED by NUFARM

Product Name **KAMBA® 750**

1. Identification

GHS Product Identifier	KAMBA® 750
Product Code	00380
Product Type	Herbicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency phone number	0800 651 911
Email	nzinfo@nufarm.com
Recommended use of the chemical and restrictions on use	A selective herbicide for the control of difficult broadleaf weeds in cereals, maize, pasture, plantain and waste areas. (Controls atrazine resistant fathen in maize.)
Other Information	This SDS 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. Hazard Identification

Signal Word (s)	WARNING
Hazard Statement (s)	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H373 May cause damage to organs through repeated oral exposure at high doses. H410 Very toxic to aquatic life with long lasting effects. H421 Very toxic to soil environment. H433 Harmful to terrestrial vertebrates.
Pictogram (s)	Exclamation mark, Health hazard, Environment, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention	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. P261 Avoid breathing mist/vapours/spray. P264 Wash hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves, protective clothing and eye protection.
Precautionary statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. DO NOT SCRUB THE SKIN. P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P391 Collect spillage.
Other Information	6.1D acute toxicant, 6.3A skin irritant, 6.4A eye irritant, 6.5B sensitiser, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.2A soil

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toxicant, 9.3C terrestrial vertebrate toxicant,

3. Composition/information on ingredients

Chemical Liquid

Characterization

Ingredients

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Dicamba (present as the dimethylamine and monomethylamine salts)	1918-00-9	750 g/L
Water		Balance

4. First-aid measures

First Aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance. Do not scrub the skin.
Eye contact	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.
First Aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
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	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Hazchem Code	2Z
Decomposition Temp.	c 200°C for dicamba.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & Disposal	Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling	Do not handle until all safety precautions have been read and understood. The person mixing or applying KAMBA 750 must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by 'Qualified
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Loader'. For more information refer to the Hazardous Substances (Hazardous Property Controls) Notice 2017.
 It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017.
 Avoid skin and eye contact and inhalation of spray mist.
 CERTIFIED HANDLER: Is not required.
 TRACKING: Is not required.
 RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3 litres or more is applied within 24 hours.
 BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.
 Do NOT spray in high winds.
 Keep out of reach of children.
 Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals.
 Stores containing 100L of KAMBA 750 require secondary containment and are subject to signage, and more than 100L require emergency response plans.
 Always read the label and any attached leaflet before use.
 Aggregate Storage Volume Thresholds:
 When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

Conditions for safe storage, including any incompatibilities

Other Information

8. Exposure controls/personal protection

Occupational exposure limit values No exposure limits (WES, TEL or EEL's) have been specifically assigned 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 safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, washable hat, and boots.
Hygiene Measures Do not eat, drink or smoke while using.
 Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

9. Physical and chemical properties

Form Liquid
Appearance Clear Brown Liquid.
Odour Mild amine odour
Decomposition Temperature c 200°C for dicamba.
Melting Point 114°C-116°C (dicamba)
Boiling Point >230°C (for dicamba)
Solubility in Water Soluble in water.
Specific Gravity Typically 1.260
pH 9
Vapour Pressure Dicamba salt is not volatile.
Vapour Density (Air=1) Not applicable.
Partition Coefficient: n-octanol/water -0.55 (pH 5.0) for dicamba.
Flash Point Not applicable.
Flammability Non combustible material.
Auto-Ignition Temperature Not applicable.

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Flammable Limits - Lower	Not applicable.
Flammable Limits - Upper	Not applicable.
Kinematic Viscosity	Not available.
Other Information	(SL) Soluble concentrate

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible Materials	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.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation will not occur.

11. Toxicological Information

Toxicology Information	No harmful effects are expected if the precautions on the label and this SDS are followed.
Acute Toxicity - Oral	LD50 (rat) 1800mg/kg for the mixture (acute toxicity estimate)
Acute Toxicity - Dermal	LD50 (rabbit) >2000 mg/kg for dicamba
Acute Toxicity - Inhalation	LC50 (male rat) (4hr) 4.46 mg/L for dicamba.
Ingestion	The concentrate is of low toxicity 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	Causes serious eye irritation. Prolonged contact with the concentrate may cause damage to the eye.
Respiratory sensitisation	Data not available.
Skin Sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Data not available.
Carcinogenicity	Data indicates no carcinogenic effects.
Reproductive Toxicity	Data indicates no reproductive effects. Data indicates no teratogenic effects.
STOT-repeated exposure	May cause damage to organs from repeated oral exposure at high doses.
Aspiration Hazard	Data not available.
Chronic Effects	Myotoxic muscular spasms, urinary incontinence and if excessive, dyspnea, cyanosis and exhaustion.
Mutagenicity	Data indicates no mutagenic effects.
Respiratory Irritation	Not an 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, Office of Chemical Safety, 'ADI List', December 2014).

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12. Ecological information

Persistence and degradability	Loss from soil is principally by microbial degradation. Average field half life of dicamba is 14 days.
Mobility	Dicamba is mobile in soil.
Environmental Fate	In the soil, dicamba microbially degrades, the principal metabolite being 3,6-dichlorosalicylic acid. Under conditions amenable to rapid metabolism, DT50 <14 days. Koc = 249-2930 depending on the soil.
Bioaccumulative Potential	Not Bioaccumulative.
Known Harmful Effects on the Environment	Dicamba products do not appear to pose any threat to birds.
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 (96h) for rainbow trout = 135mg/L for dicamba
Acute Toxicity - Daphnia	LC50 (48h) for daphnia = 120.7 mg/L for dicamba
Acute Toxicity - Algae	LC50 for Pseudokirchneriella subcapitata = >3.7 mg/L for dicamba
Acute Toxicity - Other Organisms	LD50 for bobwhite quail = 216 mg/kg for dicamba Not toxic to bees: LD50 >100µg/bee for dicamba

13. Disposal considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

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	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (dicamba, 75%)
Transport hazard class(es)	9
Hazchem Code	2Z
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
IMDG EMS	F-A, S-F
Other Information	Do not carry this product on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

15. Regulatory information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P9694 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR101378 See www.epa.govt.nz for approval controls.
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Safety Data Sheet

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16. Other Information

Date of preparation New product.
or last revision of
SDS

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE
24Hr Tollfree Emergency No: 0800 651 911
24Hr Emergency No: National Poisons Centre Phone: 0800 764 766
N/A. First issue.

Revisions
Highlighted

...End Of MSDS...

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