

SAFETY DATA SHEET



Garrards Pty Ltd	Date Issued: 23 March 2015
Brendale, Qld 4500	Fax: (07) 3881 1781
Phone: (07) 3881 1693	www.garrards.com.au

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Dicamba / MCPA

COMPANY IDENTIFICATION:

Garrards Pty Ltd
PO Box 5477
Brendale MDC, Queensland 4500

USE: Group I Agricultural Herbicide

2. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients	CAS Reg. No.	Conc.
Dicamba	1918-00-9	80g/l
MCPA	94-74-6	340g/l
Dimethylamine	124-40-3	MED
Other ingredients determined non-hazardous.		HIGH

Proportion (% weight per weight): VHIGH >60, HIGH 30-60, MED 10-29, LOW 1-9, VLOW <1

3. HAZARDOUS IDENTIFICATIONS:

- **Hazardous according to the criteria of Safe Work Australia**

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

EYE: Irritating to eyes. It will cause discomfort such as stinging pain, watering and redness of the eyes. Effects may last after exposure has caused, and in severe exposure, long lasting or even permanent effects such as corneal damage can occur.

SKIN: May irritate the skin. It is unlikely to cause any more than mild transient discomfort. It is also unlikely to cause any significant lasting effects. In some individuals dicamba is a skin sensitiser.

INGESTION: Mildly irritating to the gastrointestinal tract. Will cause mild to strong sensation to mouth and throat.

INHALATION: Irritating if inhaled. Will cause discomfort to throat and lings and/or coughing, which should disappear once exposure has ceased.

SYSTEMIC (other target organ): In mice, some enlargement of liver cells has occurred. A similar effect has not been shown in man.

CANCER INFORMATION: The ingredients are not listed as carcinogenic by Safe Work Australia

TERATOLOGY (Birth defects): Dicamba is suspected of being a human teratogen. No teratogenic effects have been shown in lab animals such as rabbits and rats.

MUTAGENICITY: Dicamba has not been shown to be a mutagen.

4. FIRST AID:

If poisoning occurs, immediately contact a doctor or **Poisons Information Centre (telephone 13 11 26)**, and follow the advice given. Show this Safety Data Sheet to a doctor.

EYE: Rinse immediately with plenty of water for at least 15 minutes, holding eye open and taking care to rinse under eyelids as well. If irritation persist seek medical attention.

SKIN: Wash off skin immediately with soap and plenty of water. Remove all contaminated clothing and shoes. Seek medical advice if irritation persists. Launder contaminated clothing before re-use.

INGESTION: Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice.

INHALATION: Remove victim to fresh air. Seek medical advice if symptoms are experienced.

NOTE TO PHYSICIAN / FIRST AIDERS: Treat Symptomatically. Note the nature of this product.

5. FIRE FIGHTING MEASURES:

FLASH POINT: Does not burn.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry chemical, foam water fog.

FIRE AND EXPLOSION HAZARDS: Fire decomposition products may form toxic and corrosive mixtures in confined spaces. Likely to decompose only after heating to dryness followed by further strong heating.

FIRE-FIGHTING EQUIPMENT: When fighting fires involving significant amounts, wear safety boots, non-flammable overalls, gloves, hat goggles and respirator. All skin areas should be covered.

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6. ACCIDENTAL RELEASE MEASURES:

ACTION TO TAKE FOR SPILLS:

In case of spills it is important to take all steps necessary to:

- Avoid eye and skin contact.
 - Avoid contamination of waterways.
1. Keep all bystanders away.
 2. Wear full-length clothing and PVC gloves.
 3. Reposition any leaking containers so as to minimise further leakage.
 4. Dam and absorb spill with an absorbent material (e.g. sand or soil).
 5. Shovel the absorbed spill into drums and top with hydrated lime.
 6. Disposal of the absorbent material will depend on the extent of the spill.
 - For quantities up to 50L of product bury in a secure land fill site.
 - For quantities greater than 50L seek advice from the manufacturer before attempting disposal. Contain in a secure location until disposal method is established.
 7. Decontaminate spill area with hydrate lime scattered over the spill prior to rinsing off with water.

7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool dry place away from direct sunlight. Store away from food and food stuffs for animal or human consumption. Store in its original container well sealed.

8. EXPOSURE CONTROL / PERSONAL PROTECTION:

EXPOSURE GUIDELINES:

Exposure values at the TWA (Time Weighted Average) means the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. A time weight average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for any of the major ingredients in this product. There is a blanket recommendation of 10mg/m³ for inspirable dusts or mists when limits have not otherwise been established.

ENGINEERING CONTROLS:

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust

ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Avoid skin and eye contact and inhalation of vapour. Wear overalls, eye protection and impervious gloves. Use adequate ventilation. Eye washing and shower facilities available.

EYE / FACE PROTECTION: Face and eye protection should be worn. For help in selecting suitable equipment consult AS 1336 and AS/NZS 1337.

SKIN PROTECTION: Wear chemical resistant PVC or nitrile gloves. Wear cotton overalls and washable cotton hat. Wear boots. For help in selecting suitable gloves consult AS 2161 For help in selecting suitable clothing consult AS 2919. For help in selecting boots consult AS/NZS 2210

RESPIRATORY PROTECTION: Use in well-ventilated area. For help in selecting suitable equipment consult AS/NZS 1715.

APPLICATIONS AND ALL OTHER HANDLERS:

After handling this product always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Clear brown liquid.

ODOUR: Mild amine

SOLUBILITY IN WATER: Completely soluble

SPECIFIC GRAVITY: 1.112

BOILING POINT: Approx. 100°C at 100kPa

CORROSIVENESS: Not corrosive.

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions. Reaction of the concentrate with alkaline materials such as caustic soda (and even lime) will liberate dimethylamine vapour. Dimethylamine is moderately

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toxic, LD₅₀ (Oral, rat) is 700mg/kg and TLV of 10ppm (TWA) has been set. Dimethylamine has a fishy odour. Reaction of the concentrate or spray mix with acids will precipitate solid dicamba and largely deactivate the product and cause blockages in spray equipment, under adverse conditions, the concentrate may react strongly with powerful oxidising agents.

INCOMPATIBILITY: Avoid strong oxidising agents, zinc, tin, aluminum, copper and their alloys.

HAZARDOUS DECOMPOSITION PRODUCTS: This product is unlikely to spontaneously decompose.

HAZARDOUS POLYMERIZATION: This product is unlikely to spontaneously polymerise.

11. TOXICOLOGICAL INFORMATION:

For Dicamba

- LD₅₀ Oral (Rat) = 1707 mg/kg
- LD₅₀ Dermal (Rat > 2000 mg/kg)
- LC₅₀ Inhalation (Rat) > 9.6 mg/L4hr

The ADI (Acceptable Daily Intake) for Dicamba is set at 0.3mg/kg/day. The corresponding NOEL (No-observable-effect-level) is set at 3mg/kg/day.

For MCPA:

- LC₅₀ Oral (Rat) 900 – 1160 mg/kg
- LD₅₀ Oral (mouse) 550 mg/kg
- LD₅₀ Dermal (Rat > 2000 mg/kg)
- LC₅₀ Inhalation (Rat) > 6.36 mg/L/4hr

The ADI for MCPA is set at 0.01mg/kg/day. The corresponding NOEL is set at 1.1mg/kg/day. (Values taken from Australian ADI List, May 1998)

12. ECOLOGICAL INFORMATION:

ENVIRONMENTAL DATA: Dicamba does not bind to soil particles and is highly soluble in water. It is therefore highly mobile in the soil and may contaminate groundwater.

ECOTOXICOLOGY:

Dicamba is

- Only slightly toxic to birds.
- Of low toxicity to fish.
- Not toxic to bees

When used according to the instructions, dicamba poses little threat to wildlife.

MCPA

- LC₅₀ (rainbow trout) 232mg/L (96 hrs)
- Not toxic to bees

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHOD: Dispose of empty, used containers by;

- (a) Triple rinsing with water. Add the rinsings to the tank mix or dispose of rinsate in a disposal pit away from desirable plants and roots, and watercourses. On-site disposal of undiluted product is unacceptable.
- (b) Breaking, crushing or puncturing the containers to prevent reuse.
- (c) Disposing of in a local authority, bury landfill site that does not burn its refuse. If there is no local authority landfill readily available in your area, bury the containers under at least 50cm of soil at a licensed/approved disposal site. DO NOT burn empty containers or product.

14. TRANSPORT INFORMATION:

ROAD AND RAIL TRANSPORT: Exempt from classification (AU01) by the criteria of the Australian dangerous goods Code (ADG) for the transport by Road and Rail.

MARINE TRANSPORT: Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods code (IMDG Code) for transport by sea.

UN-No: 3082

Class: 9 Miscellaneous Dangerous Goods

Packing group: 3

SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S (CONTAINS NONYLPHENOL ETHOXYLATE)

AIR TRANSPORT: Classified as dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for the transport by air.

UN-No: 3082

Class: 9 Miscellaneous Dangerous Goods

Packing group: 3

SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S (CONTAINS NONYLPHENOL ETHOXYLATE)

15. REGULATORY INFORMATION:

POISON SCHEDULE: S5

RISK PHRASES:

- R22 – Harmful if swallowed.
- R38 – Irritating to skin.

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- R41 – Risk of serious damage to eyes.

SAFETY PHRASES:

- S2 Keep out of reach of children
- S13 Keep away from drink, and animal feeding stuffs.
- S23 - Do not breathe vapour or spray.
- S25 - Avoid contact with eyes.
- S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S46 – if swallowed, seek medical advice immediately and show the container, label or MSDS.

16. OTHER INFORMATION:

All information in this data sheet is provided in good faith and is believed to be correct. Each user should consider the information in this safety data sheet within the context of their particular application as Garrards Pty Ltd cannot anticipate or control conditions under which this product may be used. Garrards Pty Ltd will not be responsible for any damages arising out of the use or reliance upon the information in this safety data sheet. No expressed or implied warranties are given other than those implied mandatory by Commonwealth, State or Territory legislation.

Please read all labels carefully before use.

Contact: **Emergency Services**
Ph: 000
Poisons Information Centre
13 11 26