

# SAFETY DATA SHEET



## PCT International Pty Ltd

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# DICAMBA M

## SELECTIVE HERBICIDE

Classified as hazardous according to criteria of NOHSC

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

**Product Name:** Surefire Dicamba M Selective Herbicide  
**Product Code:** none  
**Product Use:** herbicide for control of certain broadleaf weeds as per the label directions  
**Poison Schedule:** S5  
**Supplier:** PCT International Pty Ltd  
**ABN:** 44 101 170 923  
**Street Address:** Unit 5 / 74 Murdoch Circuit, ACACIA RIDGE QLD 4110  
**Telephone:** + 61 7 3711 7022  
**Facsimile:** + 61 7 3711 7055

**Emergency telephone No: 1800 630 877**

**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.

**MSDS Creation Date:** 27<sup>th</sup> June 2013

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Formulation Type:** Liquid

Ingredients	CAS NO.	Concentration
MCPA (present as the Dimethylamine salt)	94-74-6	340 g/L
Dicamba (present as the Dimethylamine salt)	1918-00-9	80 g/L
Water		to 100%

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## 3. HAZARDS IDENTIFICATION

**Emergency Overview** Hazardous substance ; Non-dangerous goods ; Harmful to aquatic organisms.

### Physical Appearance

**Form:** Liquid  
**Colour:** Light Amber  
**Odour:** Characteristic mild amine odour  
**Water Solubility:** Soluble  
**pH:** not known

### Potential Health Effects

**Eyes:** Irritating to the eyes  
**Skin:** May cause slight irritation  
**Ingestion:** May be slightly toxic based on acute animal studies. Symptoms of poisoning include apathy, muscular cramps, depressed muscular tone, respiratory difficulties and trembling.  
**Inhalation:** May be slightly toxic based on acute animal studies. Exact effects on humans are not known.

### **Primary Routes of**

**Entry:** Eyes, Skin, Inhalation, Ingestion  
**Target Organs:** Eyes, Skin, Respiratory Tract, Digestive System  
**Carcinogenicity:** Not considered to be a carcinogen  
**Risk Phrases:** R22 Harmful if swallowed R38 Irritating to skin  
R41 Risk of serious damage to eyes

**Safety Phrases:** S2 Keep out of reach of children S13 Keep away from food, drink & feed  
S25 Avoid contact with eyes S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/S37/S39 Wear suitable protective clothing, gloves and eye/face protection. S46 If swallowed, seek medical advice immediately and show the container or label.

## 4. FIRST AID MEASURES

**Eyes:** Flush eye(s) with water for 15 minutes or more- If irritation persists, consult a doctor (preferably an eye specialist) and show this MSDS.  
**Skin:** Remove any contaminated clothing. Wash affected areas immediately and thoroughly with soap and water.  
**Ingestion:** Rinse mouth thoroughly with water, and then drink plenty of water. Do not induce vomiting.  
If swallowed seek medical advice and show this MSDS.  
**Inhalation:** Remove affected person from site of exposure to fresh air until recovered. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Seek medical attention if symptoms persist.  
**First Aid Facilities:** If poisoning occurs, contact a doctor or Poisons Information Centre on **13 11 26** (Australia).  
**General Advice:** Remove soiled or soaked clothing immediately.

**Information for doctor:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Flash Point:** None up to 100°C.  
**Autoignition Temperature:** Not applicable.  
**Upper Explosion Limits:** Not applicable.  
**Lower Explosion Limits:** Not applicable.  
**Suitable Extinguishing Media:** Foam, carbon dioxide, dry powder, water fog,  
**By-products in case of Fire:** In the event of a fire the following can be released:  
- hydrogen chloride, phosgene & possible organochlorine compounds

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**Further Information:** Keep unnecessary persons away from the area. If safe to do so, remove intact containers, otherwise use water spray to cool them. Collect contaminated firefighting water separately, by bunding the area with sand or earth. Fire control water must not be discharged into drains.

**Special Protective Equipment for Firefighters:** As in any fire, water, self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing, especially in confined spaces.

## 6. ACCIDENTAL RELEASE MEASURES

### Methods for Cleaning Up/ Taking Up:

Spills: Dealing with spills has the potential to increase the risk of personal exposure- during such operations, ensure that protective clothing is worn as detailed below. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away. Prevent spillage from entering drains, sewers or watercourses. If contamination thereof is unavoidable, warn the local water authority. Spills should be contained and absorbed with soil, sand, sawdust, clay, cat litter or other similar material, and once absorption is complete, this material then be placed in sealable, labeled, drums for safe disposal in an approved landfill, and in accordance with the requirements of local or State Waste Management Authorities. Alternatively, bury under at least 500<sup>mm</sup> of soil in an area away from crops, pastures, homes or water sources. To decontaminate spill area, tools and equipment, wash with a suitable solution, e.g. organic solvent, detergent, bleach or caustic, and add this material to the drums of waste already collected. Label all contents. Do not burn empty containers or product.

## 7. HANDLING AND STORAGE

### Advice on safe

**Handling:** Keep out of reach of children. Avoid contact with eyes and skin. Wash hands after use, and before smoking or eating / drinking. Wash protective gear and clothing after each day's use.

### Advice on protection against fire and explosion:

Not flammable- no special measures required.

**Storage information:** Keep product in the original container, tightly closed, in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

**Other information:** Equipment that has been used with this product should not be used for the application of other chemicals/ materials to sensitive plants unless it has been thoroughly washed out with hot soapy water or a 1% solution of ammonia, and further rinsed out several times with water.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### General protective Measures:

Avoid contact with eyes and skin  
Do not inhale mists.

### Hygiene Measures:

No smoking, eating or drinking allowed when using this product.  
Wash hands before breaks and at end of work shift.  
Protective ointment is recommended.

### Respiratory Protection:

In case of formation of mists or vapours, an organic vapour cartridge respirator should be used.

### Hand Protection:

Elbow length PVC gloves should be worn when using this product.

### Eye Protection:

Safety goggles and/or face shield is recommended when using this product.

### Protective clothing:

Cotton overalls buttoned to the neck and wrist, and a washable hat, are required when using this product.

**Engineering Controls:** Use in a well ventilated area only. Good general (mechanical) ventilation should be sufficient to control airborne mist levels.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Amber liquid
<b>Odour:</b>	Slight amine odour.
<b>Solubility in Water:</b>	Soluble with water.
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	approx. 1.13 @ 20°C
<b>pH Value:</b>	not known
<b>Vapour Pressure:</b>	the salts of Dicamba and MCPA are not volatile
<b>Melting Temperature:</b>	not measured
<b>Boiling temperature:</b>	100°C
<b>Viscosity, dynamic:</b>	not measured

## 10. STABILITY AND REACTIVITY

**Conditions to avoid:** None with proper storage and handling, other than extreme heat. Both the concentrate and the spray mix will react with acids, causing a precipitation of solid Dicamba and MCPA, which will substantially de-activate the product, and cause blockages in spray equipment. Strong alkalis such as caustic soda will result in release of dimethylamine vapour.

### Thermal

**Decomposition:** Not measured, although if involved in a fire, the formation of hydrogen chloride, phosgene & possible organochlorine compounds

**Hazardous reactions:** No hazardous reactions with proper storage and handling. Keep away from strong oxidizing agents.

### Hazardous

**Polymerization:** Unlikely to occur.

**Stability:** Stable under normal conditions of storage and use.

### Hazardous

### decomposition

**products:** None with proper storage and handling.

## 11. TOXICOLOGICAL INFORMATION

**Eye Irritation:** The concentrate will cause severe eye irritation.

**Skin Irritation:** The product will cause skin irritation.

**Note:** harmful by inhalation and in contact with skin

Irritant to skin

Risk of serious damage to eyes

The toxicological data refer to the undiluted 100% product.

### Acute Toxicity:

#### Dicamba

Oral LD <sub>50</sub> (rat)	1040mg/kg
Oral LD <sub>50</sub> (mouse)	1190mg/kg
Oral LD <sub>50</sub> (rabbit)	2000mg/kg
Dermal LD <sub>50</sub> (rabbit)	>2000mg/kg
Inhalation LC <sub>50</sub> (rat)	>5.3mg/L
LC <sub>50</sub> (bluegill, rainbow trout)	>1000mg/L
LC <sub>50</sub> (daphnia)	>1600mg/L

#### MCPA

Oral LD <sub>50</sub> (rat)	800mg/kg
Oral LD <sub>50</sub> (mouse)	550mg/kg
Dermal LD <sub>50</sub> (rabbit)	3400mg/kg
Inhalation LC <sub>50</sub> (rat)	4800mg/L
LC <sub>50</sub> (bluegill, rainbow trout)	117mg/L
LD <sub>50</sub> (bob white quail)	377mg/kg

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity Effects:

**Acute Toxicity – Fish:** LC<sub>50</sub> (96h) for rainbow trout is 135 mg/L (Dicamba)  
LC<sub>50</sub> (96 hr) for rainbow trout is 50 - 560 mg/l for MCPA  
LC<sub>50</sub> (96 hr) for bluegill sunfish is >135 mg/l for MCPA

### Acute Toxicity -

**Daphniae:** LC<sub>50</sub> (48 hr) for daphnia is 110 mg/l for Dicamba.  
LC<sub>50</sub> (48 hr) for daphnia is >190 mg/l for MCPA.

### Acute Toxicity - Other

**Organisms:** Bees: Not toxic to bees. LD<sub>50</sub> for Dicamba is >100 µg/bee.  
Bees: Not toxic to bees. LD<sub>50</sub> for MCPA is 104 µg/bee.  
LD<sub>50</sub> for bobwhite quail is 377 mg/kg for MCPA  
Considered to be low toxicity to birds.

### Further ecological information:

**Ecological notes:** This product is considered to be a water pollutant. It is classified as immobile in soil and is not expected to leach. Do not discharge product unmonitored into the environment. The ecotoxicological data refer to the undiluted 100% product.

**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 /

**Degradability:** Loss from soil occurs primarily by microbial degradation.  
Average field half life of dicamba is 14 days.  
Average field half life of MCPA is 7 days.

## 13. DISPOSAL CONSIDERATIONS

### ALWAYS DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

**Product Disposal:** In accordance with local authority regulations, take to special waste incineration plant.

**Container Disposal:** Dispose of empty, used containers by triple rinsing, or preferably pressure rinsing. Add the rinsate to the spray tank or dispose of the rinsate in a disposal pit away from desirable plants and their roots and from watercourses. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return cleaned containers to a recycler or designated collection point. If not recycling, break, crush or puncture empty containers and bury in a local authority landfill. If no landfill available, bury the containers at least 500<sup>mm</sup> deep 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

<b>UN No. :</b>	<b>None Allocated</b>
<b>Shipping Name :</b>	<b>None Allocated</b>
<b>Dangerous Goods Class :</b>	<b>None Allocated</b>
<b>Subsidiary Risk :</b>	<b>None Allocated</b>
<b>Pack Group :</b>	<b>None Allocated</b>
<b>Special Precaution for user :</b>	<b>None Allocated</b>
<b>Hazchem Code :</b>	<b>None Allocated</b>

**EPG:** n/a

**Storage and Transport:** Considered non – dangerous goods for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

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## 15. REGULATORY INFORMATION

**APVMA Approval №:** 62657/(1,5,20)L/0108  
**Poisons Schedule:** S5  
**Packaging & Labeling:** READ SAFETY DIRECTIONS BEFORE OPENING OR USING  
**Hazard Category**  
**AICS (Australia):** Listed on the Australian Inventory of Chemical Substances.

## 16. OTHER INFORMATION

**Contact Person/Point:** Mr David Pearson Phone: (07) 3711 7022

**This SDS contains only safety-related information. For other data, see product literature.**

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...End of SDS...