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Infosafe No. NU0DA Issue Date: May 2006 ISSUED by NUFARM

Product Name: MCPA 500 Selective Herbicide

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

MCPA 500 Selective Herbicide **Product Name**

Product Code 0565

Product Type Group I Herbicide

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/Fax Tel: (03) 9282-1000 Fax: (03) 9282-1001

Number

Recommended Use For the selective control of broadleaf weeds in cereals, linseed, pastures,

sugar cane and turf as per the Directions for Use table on the label.

This MSDS describes, to the best of our knowledge, the properties of the **Other Information**

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. HAZARDS IDENTIFICATION

Hazard Classification HAZARDOUS SUBSTANCE.

NON-DANGEROUS GOODS.

Hazard classification according to the criteria of NOHSC.

Dangerous goods classification according to the Australia Dangerous Goods Code.

Risk Phrase(s) R22 Harmful if swallowed.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

Safety Phrase(s) S13 Keep away from food, drink and animal feeding stuffs.

S2 Keep out of reach of children. S25 Avoid contact with eyes.

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

seek medical advice.

S37/39 Wear suitable gloves and eye/face protection.

S46 If swallowed, seek medical advice immediately and show this container or

label.

Other Information Poisons Schedule S6

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization

Liquid

Ingredients CAS Proportion Name 500 g/L

94-74-6 MCPA (as present as the

Dimethylamine salt)

Other ingredients (considered Balance

non-hazardous)

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.

If symptoms develop or persist, seek medical advice.

Ingestion Rinse mouth and then drink plenty of water.

Do not give anything by mouth to a semi-conscious or unconscious person. 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.



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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.

Seek medical advice immediately.

First Aid Facilities If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26

(Australia).

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing If involved in a fire, the product will not burn. Choose extinguishing media to

Media suit the burning material.

Hazards from May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or

Combustion Products exposed to extreme heat.

Speical Protective Breathable air apparatus should be worn when fighting a fire in which this

Equipment for fire product is involved.

Equipment for fire fighters

Specific Hazards Considered low risk due to water content, however upon evaporation of water the

product is combustible.

Hazchem Code None Allocated

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.

On-site disposal of concentrate is not acceptable.

 $\textbf{Personal Protection} \quad \textbf{For appropriate personal protective equipment (PPE), refer Section 8. } \\$

Clean-up Methods -Large Spillages Place damaged containers in recovery bins (if available) and return to

manufacturer.

If large liquid spills occur, attempt to recover as much spilt material from sumps and bunded areas before absorbing remaining material into vermiculite or

other absorbent.

Environmental This product is a herbicide and spills can damage crops, pastures and desirable

Precautions vegetation.

7. HANDLING AND STORAGE

Precautions for Safe Do NOT spray in high winds.

Handling Do NOT contaminate dams, rivers or streams, or any other water bodies with

pesticide or used containers.

Conditions for Safe Storage Store in the closed, original container in a cool, well ventilated area.

Do not store for prolonged periods in direct sunlight.

Tank Cleaning See label for detailed information on cleaning of spray equipment.

Other Information Always read the label and any attached leaflet before use.

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.

Sprayed weeds may become more palatable to stock and a higher intake of some weeds may result in stock poisoning and death from causes such as nitrate poisoning. Care should be taken especially where capeweed, Paterson's curse

and variegated thistles predominate in the pasture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

 $\begin{array}{ll} \textbf{National Exposure} & \textbf{No exposure standards have been set for this product or the active ingredients.} \\ \textbf{Standards} & \\ \end{array}$



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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

rubber 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 NSW regulations require that people who use pesticides in their job or business must have training in the application of the materials. By 1st September, 2005

all users must have received such training.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Liquid

Appearance Clear, red-brown liquid

Odour Ammonia like odour Solubility in Water Soluble in water.

Specific Gravity 1.133 **pH Value** 8-9

Vapour Pressure Negligible

Volatile Component 36%

Octanol/Water Kow Log P is -0.71 at pH7 (MCPA acid)

Partition Coefficient

Flash Point None

Flammability Not flammable Other Information pKa is 3.07

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions.

Incompatible Materials

Reaction of the concentrate or spray mix with acids will precipitate solid MCPA acid 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 10

ppm (TWA) has been set.

Hazardous Polymerization Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION

 $\textbf{Toxicology} \hspace{1.5cm} \textbf{No harmful effects are expected if the precautions on the label and this MSDS} \\$

Information are followed.

expected from handling the concentrate.

A moderate hazard exists from inhalation of spray and care should be taken to

avoid inhalation of spray mists.

Ingestion Not a likely route of exposure.

Amounts swallowed incidental to normal handling procedures and use are not

expected to cause injury.

However, swallowing of large amounts may cause injury.

Ingestion of the concentrate in relatively large amounts can result in headache,

nausea, lethargy, motor weakness and incoordination.



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Skin Unless removed immediately, will cause irritation.

Prolonged contact with the concentrate may result in absorption of MCPA in

harmful amounts.

Eye The concentrate will cause severe irritation and possible damage unless washed

off immediately.

Chronic Effects Liver and kidney damage has been noted in laboratory animals that have been fed

excessive doses of MCPA.

Carcinogenicity The weight of the evidence is that MCPA is not carcinogenic.

Acute Toxicity - Oral The following data is for the active ingredient, MCPA dimethylamine salt.

LD50 (rat) 1876 mg/kg

Acute Toxicity -

LD50 (rat) >2000 mg/kg

Dermal

Acute Toxicity -LC50 (rat) (4hr) >1.69 mg/l

Inhalation

Eye Irritation MCPA dimethylamine salt is a severe eye irritant.

Skin Irritation The product is a skin irritant. Skin Sensitisation Product is not a skin sensitiser.

Other Information The Australian Acceptable Daily Intake (ADI) for MCPA for a human is 0.01

mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.1 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, September 2005).

12. ECOLOGICAL INFORMATION

Mobility Rapid degradation in soil prevents significant downward movement under normal

Known Harmful Effects on the

MCPA dimethylamine salt products do not appear to pose any threat to birds. MCPA dimethylamine salt products do not appear to pose any threat to fish or

other aquatic organisms other than in very high concentrations.

Environment

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. **Acute Toxicity - Fish** LC50 (96 hr) for rainbow trout is 50 mg/l for MCPA dimethylamine salt Acute Toxicity -EC50 (48 hr) for daphnia is >190 mg/l for MCPA dimethylamine salt.

Daphnia

Acute Toxicity - Algae LC50 for algae is >392 mg/l.

Acute Toxicity - Other Birds: Not toxic to birds. LD50 for bobwhite quail is 270 mg/kg

Bees: Not toxic to bees. LD50 >200 μ g/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 (ChemCollect).



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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 recycling, replace cap and return clean containers to recycler or designated

collection point.

If not recycling, puncture or shred and bury conta

If not recycling, puncture or shred and bury containers in local authority

landfill.

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

U.N. Number None Allocated
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

Poisons Schedule S6

Packaging & POISON

Labelling KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category Harmful, Irritant

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...