

WELLFARM MCPA 750 SL HERBICIDE

APVMA Product No: 70320

Poison Schedule: 6

Emergency Telephone Number:

The Australian Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia)

Specialist Advice In An Emergency Only 1800 033 111 All Hours Australia Wide

In A Transport Emergency Dial 000 Police Or Fire Brigade

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company: Wellfarm Pty Ltd
Website: www.wellfarm.com.au
Email: info@wellfarm.com.au
Postal Address: 22 Calypso Crescent, Point Cook, Vic 3030

Product Name: WELLFARM MCPA 750 SL HERBICIDE
Product Type: Group I Herbicide
Formulation Type: Soluble Concentrate
Product Use: Agricultural Herbicide

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.

Classified as hazardous according to the criteria of Safe Work Australia.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Hazardous Xn - Harmful
Risk Phrases R20/21/22 - Harmful by inhalation, in contact with skin, and if swallowed.
R38 - Irritating to skin.
R41 - Risk of serious eye damage.
Safety Phrases S2 - Keep out of reach of children.
S13 - Keep away from food, drink and animal feeding stuffs.
S20 - When using, do not eat or drink.
S26 - In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.
S36 - Wear suitable protective clothing.
S46 - If swallowed, contact a doctor or Poisons Information Centre immediately and show this MSDS or label.
S24/25 - Avoid contact with skin and eyes.
S37/39 - Wear suitable gloves and eye/face protection.
S6

SUSMP Classification

Emergency Overview

Physical Description & colour

Clear red-brown liquid

Odour

Ammoniacal odour

Major Health Hazards

Symptoms in humans from very high acute exposure could include slurred speech, twitching, jerking and spasms, drooling, low blood pressure, and unconsciousness. This product may cause serious damage to eyes, harmful if swallowed, skin irritant.

Potential Health Effects

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Inhalation	<p>Short Term Exposure: Available data shows that this product is harmful, but symptoms are not available. In addition product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.</p> <p>Long Term Exposure: No data for health effects associated with long term inhalation.</p>
Skin Contact	<p>Short Term Exposure: Available data shows that this product is harmful, but symptoms are not available. However product is unlikely to cause any discomfort in normal use.</p> <p>Long Term Exposure: No data for health effects associated with long term skin exposure.</p> <p>Long Term exposure: No data for health effects associated with long term skin exposure.</p>
Eye Contact	<p>Short term exposure: This product is a severe eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms such as swelling of eyelids and blurred vision may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment is likely to cause permanent damage.</p> <p>Long Term exposure: No data for health effects associated with long term eye exposure.</p>
Ingestion	<p>Short Term Exposure: Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful, but symptoms are not available. This product is unlikely to cause any irritation problems in the short or long term.</p> <p>Long Term Exposure: No data for health effects associated with long term ingestion.</p>
Carcinogen Status	<p>SWA: No significant ingredient is classified as carcinogenic by SWA.</p> <p>NTP: No significant ingredient is classified as carcinogenic by NTP.</p> <p>IARC: No significant ingredient is classified as carcinogenic by IARC.</p>

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS No	Conc,%	TWA(mg/m3)	STEL (mg/m3)
MCPA (present as the dimethylamine salt)	94-74-6	750g/L	Not set	Not set
Other non hazardous ingredients	Secret	To 100	Not set	Not set

4. FIRST AID MEASURES

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

Inhalation	If symptoms of poisoning become evident, contact a Poisons Information Centre, or call a doctor at once. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow victim to move about unnecessarily. Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.
Skin	Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard.
Eyes	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical

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Ingestion

attention immediately. Take special care if exposed person is wearing contact lenses.
If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

5. FIRE-FIGHTING MEASURES

Fire and Explosion Hazards

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media

Not Combustible. Use extinguishing media suited to burning materials.

Fire Fighting

If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash Point

Does not burn

Upper Flammability Limit

Does not burn

Lower Flammability Limit

Does not burn

Autoignition temperature

Not applicable - does not burn

Flammability Class

Does not burn

6. ACCIDENTAL RELEASE MEASURES

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective chemically resistant clothing including eye/face protection, gauntlets and self contained breathing apparatus. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC, Viton. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Otherwise, not normally necessary.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

7. HANDLING AND STORAGE

Handling

Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

storage

This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Store in the closed original container in a dry, cool, well-ventilated area out of

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direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits TWA (mg/m3) STEL (mg/m3)

Exposure limits have not been established by SWA for any of the significant ingredients in this product. The ADI for MCPA is set at 0.01mg/kg/day. The corresponding NOEL is set at 1.1mg/kg/day. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, March 2010.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation	This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.
Eye Protection	Protective glasses or goggles must be worn when this product is being used. Failure to protect your eyes may lead to severe harm to them or to general health. Emergency eye wash facilities must also be available in an area close to where this product is being used.
Skin Protection	Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.
Protective Material Types	We suggest that protective clothing be made from the following materials: rubber, PVC
Respirator	Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Otherwise, not normally necessary. Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Description & colour	Clear red-brown liquid.
Odour	Ammoniacal odour.
Boiling Point	Approx 100°C (estimated).
Freezing/Melting Point	No specific data. Liquid at normal temperatures.
Volatiles	Water component: approx 10%
Vapour Pressure	As for water.
Vapour Density	>1
Specific Gravity	1.178
Water Solubility	Soluble.
pH	No data.
Volatility	No data.
Odour Threshold	No data.
Evaporation Rate	No data.
Coeff Oil/water distribution	No data.
Autoignition temp	Not applicable - does not burn.

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10. STABILITY AND REACTIVITY

Reactivity	This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Conditions to Avoid	Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.
Incompatibilities	acids, bases, strong oxidising agents.
Fire Decomposition	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Hydrogen chloride gas, other compounds of chlorine. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
Polymerisation	This product will not undergo polymerisation reactions.

11. TOXICOLOGICAL INFORMATION

Toxicity: An information profile for MCPA is available at http://extoxnet.orst.edu/pips/ghindex.html	
Acute toxicity	MCPA acid is harmful via ingestion, with reported oral LD50 values for the technical product in rats ranging from 700 mg/kg to 1160 mg/kg and ranging in mice from 550 to 800 mg/kg. It is harmful via the dermal route as well, with reported dermal LD50 values ranging from > 1000 mg/kg in rats to > 4000 mg/kg in rabbits.
Chronic toxicity	Dietary levels of approximately 50 mg/kg/day and 125 mg/kg/day over 7 months caused reduced feeding rates and retarded growth rates in rats. White blood cell counts and ratios were not affected, but some reductions in red blood cell counts and haemoglobin did appear to be associated with exposure to MCPA at oral dose levels of approximately 20 mg/kg/day. In the same study, oral doses of approximately 5 mg/kg/day caused increased relative kidney weights, and oral doses of approximately 20 mg/kg/day caused increased relative liver weights. Another study in rats showed no effects on kidney or liver weights over an unspecified period at oral doses of 60 mg/kg/day, but oral doses of 150 mg/kg/day did cause reversible increases in these weights over a course of 3 months. Very high dermal doses of 500 mg/kg/day caused reduced body weight, and even higher dermal doses of 1000 and 2000 mg/kg/day resulted in increased mortality and observable changes in liver, kidney, spleen, and thymus tissue.
Reproductive effects	A two-generation rat study at doses of up to 15 mg/kg/day affected reproductive function. It is unlikely that humans will experience these effects under normal exposure conditions.
Teratogenic effects	Offspring of pregnant rats fed low to moderate doses of MCPA (20 to 125 mg/kg) on days 6 to 15 of gestation, had no birth defects. Teratogenic effects in humans are unlikely at expected exposure levels.
Mutagenic effects	MCPA is reportedly weakly mutagenic to bone marrow and ovarian cells of hamsters, but negative results were reported for other mutagenic tests. It appears that the compound poses little or no mutagenic risk.
Carcinogenic effects	All of the available evidence on MCPA indicates that the compound does not cause cancer. Forestry and agricultural workers occupationally exposed to MCPA in Sweden did not show increased cancer incidence.
Organ toxicity	Target organs identified in animal studies include the liver, kidneys, spleen, and thymus. Farm worker exposure has resulted in reversible

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Fate in humans and animals	anaemia, muscular weakness, digestive problems, and slight liver damage. MCPA is rapidly absorbed and eliminated from mammalian systems. Rats eliminated nearly all of a single oral dose within 24 hours, mostly through urine with little or no metabolism. Humans excreted about half of a 5 mg dose in the urine within a few days. No residues were found after day 5.
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12. ECOLOGICAL INFORMATION

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.	
Effects on birds	MCPA is moderately toxic to wildfowl; the LD50 of MCPA in bobwhite quail is 377 mg/kg.
Effects on aquatic organisms	MCPA is only slightly toxic to freshwater fish, with reported LC50 values ranging from 117 to 232 mg/L in rainbow trout. MCPA is practically nontoxic to freshwater invertebrates, and estuarine and marine organisms.
Effects on other organisms	It is nontoxic to bees, with a reported oral LD50 of 104µg/bee.
Environmental Fate:	
Breakdown in soil and groundwater	MCPA and its formulations are rapidly degraded by soil microorganisms and it has low persistence, with a reported field half-life of 14 days to 1 month, depending on soil moisture and soil organic matter. MCPA and its formulations show little affinity for soil.
Breakdown in water	It is relatively stable to light breakdown, but can be rapidly broken down by microorganisms. In rice paddy water, MCPA is almost totally degraded by aquatic microorganisms in under 2 weeks.
Breakdown in vegetation	MCPA is readily absorbed and translocated in most plants. It is actively broken down in plants, the major metabolite being 2-methyl-4-chlorophenol.
Algae: EC50 >392mg/L	Daphnia: EC50 >190mg/L
Fish: LC50 rainbow trout (<i>Oncorhynchus mykiss</i>): 50mg/L	

13. DISPOSAL CONSIDERATIONS

Disposal: Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

14. TRANSPORT INFORMATION

ADG Code: This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

15. REGULATORY INFORMATION

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredient: MCPA, is mentioned in the SUSMP.

16. OTHER INFORMATION

All information contained in this document is as accurate as possible based on information submitted by raw material suppliers. Wellfarm Pty Ltd will NOT be responsible for any damages that may result from reliance on the information contained herein.

The Australian Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia).

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