

# SAFETY DATA SHEET

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

PRODUCT NAME: MAKE PERFECT

OTHER PRODUCT NAME: Soluble concentrate containing 750 g/L MCPA as dimethylamine salt.

USE: For selective weed control in established pasture, cereals, seed crops and amenity turf.

SUPPLIER: Shandong Weifang Rainbow Chemical Co., Ltd.

SUPPLIER ADDRESS: 1# Haigang Road, Binhai Economic Development Area, Weifang, Shandong 262737, China

SUPPLIER PHONE: +86-531-88875222, 88875231

SUPPLIER FAX: +86-531-88875232, 88875224

DISTRIBUTOR NAME: AGPRO NZ Ltd

DISTRIBUTOR ADDRESS: 10 Polaris Place, East Tamaki, Auckland 2013  
PO Box 58-963, Botany, Auckland 2163

DISTRIBUTOR CONTACT: 09 273 3456 or freephone 0508 536 536  
www.agpro.co.nz

POISON INFORMATION: National Poison Centre, 0800 POISON (0800 764 766) 24 hours

CHEMICAL EMERGENCY: 0800 CHEMCALL (0800 243 622) 24 hours

## 2. HAZARD IDENTIFICATION

**HAZARD CLASSIFICATION:** Product is classified as hazardous according to the *Hazardous Substances (Hazard Classification) Notice 2020* of the HSNO Act, 1996.

**APPROVAL:** HSR000381

**HAZARD CLASSIFICATIONS:** Acute oral toxicity Category 4, Serious eye damage Category 1, Specific target organ toxicity (repeated exposure) Category 1, Hazardous to the soil environment, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1.

**PICTOGRAMS:**



**SIGNAL WORD:** DANGER

**HAZARD STATEMENTS:**

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H372 Causes damage to organs from prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H421 Very toxic to soil environment.

H433 Harmful, to terrestrial vertebrates.

**PREVENTION STATEMENTS:**

P102 Keep out of reach of children.

P103 Read label before use.

P264 Wash hands, arms and face thoroughly after handling.

P270 Do not eat, drink or smoke when using.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection.

**RESPONSE STATEMENTS:**

P101 If medical advice is needed, have product container or label at hand.

P314 Get medical advice if you feel unwell.

P301 + P312 IF SWALLOWED: Call a Poison Centre or doctor if you feel unwell.

P330 Rinse mouth.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

P310 Immediately call a POISON CENTRE or doctor.

P391 Collect spillage.

**STORAGE STATEMENTS:** -

**DISPOSAL STATEMENT:** P501 Dispose of unwanted product and used packaging in compliance with local regulations.

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**OTHER INFORMATION** Classified as Dangerous Good Class 9 for transport.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS No	% w/w
MCPA	94-74-6	63.5*
Other ingredients	Proprietary	Balance

\* equivalent to MCPA 750 g/L and present as the dimethylamine salt (CAS No 2039-46-5) 918 g/L

### 4. FIRST - AID MEASURES

<b>General:</b>	If exposed or concerned, get immediate medical advice. Contact the National Poisons Centre (0800 POISON; 0800 764 766) or doctor immediately. Have product label or SDS at hand.
<b>Ingestion</b>	If swallowed do NOT induce vomiting. Rinse mouth with water. Immediately contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor for advice. Never give anything by mouth to an unconscious person. Induce vomiting if advised to by medical professional.
<b>Inhalation</b>	Remove patient to fresh air. Lay down and keep warm and at rest. Contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor for advice. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
<b>Skin contact</b>	Remove contaminated clothing and wash affected area thoroughly with plenty of soap and water. If irritation persists, get medical advice.
<b>Eye contact</b>	If in eyes flush with plenty of water holding eyelids open if necessary. Remove contact lenses if present, after a few minutes, then continue flushing with water. Get immediate medical advice.
<b>Facilities:</b>	Hand and eye washing facilities.
<b>Advice for doctor:</b>	Gastric lavage ,induced emesis, whole gut lavage or oral administration of absorbent substances are required to remove highly toxic active ingredients.

### 5. FIRE FIGHTING MEASURES

<b>Flammability:</b>	Non- flammable liquid.
<b>Specific hazards:</b>	Combustion products may be toxic and/or irritants.
<b>Extinguishing media:</b>	Dry chemical, foam, carbon dioxide or water spray. Do not use direct jet of water.
<b>Fire-fighting instructions:</b>	Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Whenever possible, contain fire-fighting water by forming a bund with sand or earth. In the event of fire, wear self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

**Spills and Disposal:** Wear protective equipment. Exclude non-essential people from the area. Contain spillage. Stop leak if safe to do so. Absorb spillage with sand, vermiculite, or soil (if high clay content) or other inert material, and place in a sealable labelled waste container. Dispose of waste safely to an approved landfill or hazardous waste facility.

**Environmental Precautions:** Prevent from entering drains, waterways or sewers. If spill does enter waterways immediately contact local authorities.

### 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin and eyes. Wear personal protective equipment at all times when handling. Keep container tightly closed when not in use. Qualified handler required. Records of use required if 3 L applied in a 24 hour period. Specific HSNO Controls

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apply. Refer to Section 15 of this SDS.

Use only in well ventilated area or outdoors. Do not eat drink or smoke when using. Remove protective clothing/equipment before rest or meal breaks. Wash/clean protective equipment after use. Do not allow contaminated clothing out of the workplace. Do not wash with household laundry.

**Storage:** Store securely in original packaging. Keep out of reach of children. Store in a cool, dry, well ventilated area away from foodstuffs, seeds and fertilizers. DO NOT store for prolonged periods in direct sunlight. Application, storage and record keeping should be as described in the current version of the Management of Agrichemicals standard NZS 8409. Stores containing quantities of 100 litres require signage and for 100 litres or more secondary containment and emergency response plan.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:** Workplace Exposure Standards, edition 12, November 2020.  
WES-TWA - Not set

**Protective Equipment:** When opening the container, preparing to measure or applying, and when applying wear protective equipment compliant with AS/NZ standards.

**Skin/eye protection:** Wear long-sleeved shirt and long pants or coat, waterproof hat and boots/shoes plus socks. Wear chemical-resistant gloves (PVC, barrier laminate, butyl rubber, nitrile rubber or Viton) and chemical safety goggles/face shield.

**Respiratory protection:** Wear mask with cartridge suitable for particulates and organic vapour.

**Other information:** Only use outdoors or in well-ventilated area. Do not eat, drink or smoke when using. Always clean protective clothing/equipment before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Brown clear liquid

**Odour:** Slight ammonia

**Odour threshold:** Not known

**Melting point:** Not applicable

**pH:** 7.5 – 9.5 (neat).

**Melting point/freezing point:** No information available

**Boiling point or range:** 100 °C

**Flashpoint:** Not applicable (nonflammable liquid)

**Flammability (solid, gas):** Not applicable

**Flammability range /explosive limits:** Not applicable

**Vapour pressure:** Not available

**Relative density:** 1.18 g/cc

**Solubility:** Soluble in water

**Partition coefficient:** Not available

**n-octanol/water:** Not available

**Auto-ignition temperature:** Not available

**Decomposition temperature:** Not available

**Kinematic viscosity:** Not available

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### 10. STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b>	No information available.
<b>STORAGE STABILITY:</b>	Stable under normal storage conditions in original container for at least two years.
<b>COMPATIBILITY:</b>	No information available.
<b>CONDITIONS TO AVOID:</b>	Contact with strong acid or strong alkaline formulations.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Unspecified irritant/toxic compounds on combustion.
<b>HAZARDOUS POLYMERISATION:</b>	Not known.

### 11. TOXICOLOGICAL INFORMATION

Toxicological information by mixture assessment on component information)

<b>Acute toxicity:</b>	Harmful if ingested.
<b>Aspiration hazard:</b>	Not classified for aspiration hazard.
<b>Respiratory irritation:</b>	Not classified.
<b>Skin corrosion/irritation:</b>	Not classified.
<b>Serious eye damage/irritation:</b>	May cause serious eye damage.
<b>Respiratory or skin sensitization:</b>	Not classified.
<b>Germ cell mutagenicity:</b>	Not classified.
<b>Carcinogenicity:</b>	Not classified.
<b>Reproductive toxicity:</b>	Not classified.
<b>Specific organ toxicity:</b>	Causes adverse effects to organs/systems from prolonged or repeated exposure at high doses. MCPA affects the liver.
<b>Narcotic effects:</b>	Not classified.
<b>Other information:</b>	Not available
<b>Toxicity data:</b>	<u>MCPA</u> Rat , oral LD <sub>50</sub> 700 - 1160 mg/kg bw Rat, dermal LD <sub>50</sub> >4000 mg/kg bw Rat, inhalation, LC <sub>50</sub> (4 hr) >6.36 mg/L

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Product is classified as being very toxic to aquatic life with long-lasting effects, very toxic to soil environment to some plant species, and toxic to terrestrial vertebrates. Take all reasonable steps to ensure that MAKE PERFECT does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water.
<b>Persistence and degradability:</b>	Product is soluble. DT <sub>50</sub> 24 days (typical). Low potential for bioconcentration.
<b>Potential to be bioaccumulative:</b>	MCPA is not identified as being bioaccumulative.
<b>Mobility in soil:</b>	MCPA is very soluble in water.
<b>Other information:</b>	<u>MCPA</u> Fish, Rainbow trout LC <sub>50</sub> (96 hr) 50 - 560 mg/L <i>Navicula pelliculosa</i> ( alga) EC <sub>50</sub> (96 hr) 0.21 mg/L <i>Daphnia magna</i> EC <sub>50</sub> (48 hr) >100 mg/L Bobwhite quail LD <sub>50</sub> 377 mg/kg bw Honey bee, oral LD <sub>50</sub> 0.104 µg/bee

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### 13. DISPOSAL CONSIDERATIONS

Product: Use product according to label or dispose of to a hazardous waste facility or in approved landfill. Follow all local/ regional/ national regulations.

Packaging : Empty packaging may retain product residue. Triple rinse with water and use rinsings in solution preparation in the spray tank. Dispose of empty clean container to recycler for agricultural chemicals, otherwise crush and bury in an approved landfill. Do not use container for any other purpose.

### 14. TRANSPORT INFORMATION

UN Number: 3082

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS 75% MCPA)

Class: 9

Packing group: III

Hazchem: 3Z

Marine pollutant: YES

### 15. REGULATORY INFORMATION

#### New Zealand

Registered pursuant to the ACVM Act 1997, No. P8756

See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions

HSNO Act 1996, Approval Code HSR000381

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls

#### HSNO Additional controls

Regulation: 77A

Description: The substance must not be applied onto or into water.

#### Other information:

<b>Certified Handler</b>	No
<b>Qualified Handler</b>	Yes, when mixed, loaded or applied.
<b>Records of Use</b>	Yes, if 3 L or more applied within a 24 hour period in a place where the product is likely to enter air or water or leave the application area.
<b>Restricted to workplace only</b>	No , but HSW HS Regulations still applicable Threshold quantity: 1000 L
<b>Secondary containment and Emergency response plan</b>	Threshold quantity: 100 L
<b>Signage</b>	Threshold quantity: 100 L

### 16. OTHER INFORMATION

Version: 2.1

Issue Date: 8 June 2023

Reason for Issue: Added distributor's contact details.

Previous version: 2<sup>nd</sup> August 2021

#### References:

Supplier Safety Data Sheets

NZ EPA Approved hazardous substances databases.

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Worksafe NZ Workplace Exposure Standards and Biological Exposure Indices, edition 12, November 2020

### Abbreviations:

ACVM:	Agricultural Chemicals and Veterinary Medicines Group
HS	Hazardous Substance
HSNO:	Hazardous substances and New Organisms Act 1996 (HSNO Act)
HSW	Health, Safety and Work
EPA:	Environmental Protection Authority of New Zealand
CAS Number:	Chemical Abstracts Service Number
LD <sub>50</sub> :	Lethal Dose 50% (Population)
LC <sub>50</sub> :	Lethal Concentration 50% (Population)
WES-TWA:	Workplace exposure standards – Time-weighted average
WES-STEL:	Workplace exposure standards – Short-term exposure limit

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

End of Safety Data Sheet