

1. PRODUCT & COMPANY IDENTIFICATION

Product Identification/Name:	Rainbow & Brown MCPA 750
Alternative Name:	Soluble concentrate containing 720-780g/L MCPA as the dimethylamine salt
Product Use:	Herbicide
Company Identification:	Rainbow & Brown Limited 68A Tallyho Street, Rotorua, New Zealand PO Box 10049, Mail Centre, Rotorua, 3046
Telephone:	+64 7 350 2009
Fax:	+64 7 350 2008
Toll-Free Phone:	0508 299 299
After Hours Emergency	+64 27 498 2574
National Poisons Centre	0800 764 766
Website:	www.rainbowbrown.co.nz
Date of Issue:	18 January 2019
Latest Revision Date:	17 June 2024 – Version 2.0

2. HAZARDS IDENTIFICATION

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020.

EPA Approval No. HSR000381

Classification of the substance or mixture:

Acute Toxicity: Oral, Category 4
Serious eye damage/eye irritation, Category 1
Systemic target organ toxicity (single exposure), Category 1
Aquatic Toxicity (acute), Category 1
There are no GHS equivalent classifications for soil toxicity, and terrestrial vertebrate toxicity

Label Elements:

Pictogram	
Signal Word	DANGER

Hazard Statements

H302	Harmful if swallowed
H318	Causes serious eye damage
H370	Causes damage to organs via ingestion
H400	Very toxic to aquatic life
H421	Very toxic to the soil environment
H432	Toxic to terrestrial vertebrates

Precautionary Statements

Prevention:

P102	Keep out of reach of children
P260	Do not breathe mist/vapours/spray
P264	Wash hands, exposed skin, thoroughly after use
P270	Do not eat, drink or smoke when using this product
P280	Wear eye protection/face protection
P273	Avoid release to the environment

Response:

P301 + P312	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell
P330	Rinse mouth
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310	Immediately call a POISON CENTRE or doctor/physician
P307 + P311	IF exposed: Call a POISON CENTRE or doctor/physician
P321	Specific treatment (see first aid panel on this label)
P391	Collect spillage

Storage:

P405	Store locked up
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Disposal:

P501	In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Refer to Section 13 of this SDS.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Concentration (%w/w)
MCPA as dimethylamine salt	2039-46-5	77.5%
Ingredients not contributing to hazard		Balance

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

4. FIRST AID MEASURES

Eye Contact:	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Remove contact lenses after first 5 minutes if present and easy to do, then continue rinsing. Get medical advice/assistance if irritation persists.
Skin:	Remove contaminated clothing. Wash gently and thoroughly with plenty of water (use non-abrasive soap if necessary). Do not scrub the skin. Get medical advice/attention if irritation occurs. Wash contaminated clothing before re-use.
Ingestion:	If swallowed, do NOT induce vomiting. Rinse mouth with water. Contact a Poisons Information Centre or call a doctor.
Inhalation:	No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air, and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.
Advice to Doctor:	No specific antidote. Ingestion may cause kidney damage. Treat symptomatically.
General:	Call the National Poisons Centre (0800 POISON, 0800 764 766) for advice if you feel unwell or have been exposed and are concerned. Have product label or SDS at hand.

5. FIRE FIGHTING MEASURES

Flash Point:	None
Flammable Limits:	No flammable or combustible
Extinguishing Media:	Water spray, dry chemical, alcohol resistant foam, CO ₂ .
Fire & Explosion Hazards:	Not a fire or explosion hazard. Addition of water may cause excessive foaming.
Fire Fighting Equipment:	Use self-contained breathing apparatus.
Fire Fighting Instructions:	Do not allow runoff to drains.
Hazchem Code:	2X

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Clear area of all unprotected personnel. Keep people upwind of fire. Use appropriate protective clothing and equipment.
Spills:	In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. Refer to Section 8 for personal protective equipment. If vapours or mists are likely to build up in the clean-up area, we recommend using a respirator. Usually, no respirator is necessary when using this product. Stop leak if safe to do so and contain spill. Collect liquid spills. Absorb small spills and residues with 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 contaminated solids into labelled containers for recycling or salvage and dispose of promptly. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Ensure legality of disposal by consulting regulations prior to disposal.

7. HANDLING AND STORAGE

Label:	N/A
Handling:	Read label before use. Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. 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. Refer to Section 8 of this SDS 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 to minimise risks to persons using the product in the workplace. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.
Storage:	Keep out of reach of children. Store locked up. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Keep away from food and feedstuffs. Store in accordance with the current version of NZS8409 Management of Agrichemicals.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Guidelines:	No established workplace exposure standard in NZ for product.
Engineering Controls:	No special engineering controls or ventilation requirements are normally necessary for this product. However, make sure that the work environment remains clean, and that vapours and spray mists are minimised.
Personal Protection:	
Respiratory Protection:	Usually, no respirator is necessary when using this product. However, if you have any doubts refer to standard AS/NZ 1715 for appropriate equipment.
Skin Protection:	Wear protective clothing such as impervious gloves, waterproof hat, coat, and trousers when using. Use impervious elbow-length gloves and facial protection when handling this product. See below for suitable material types. Protective clothing should be made from the following materials: rubber, PVC. Refer to Standard AS 2161, AS2919 and AS.NZ2210.
Eye Protection:	Protective glasses or goggles should be worn when this product is being used. Emergency eye wash facilities are also recommended in an area close to where this product is being used. Refer to standard AS.NZ1337.
Dust:	N/A
General advice:	Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being used. Do not eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work. Launder contaminated clothing separately from household laundry.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Clear brown liquid
Odour:	Mild amine odour
Odour Threshold:	Not determined
Boiling Point:	Not available
Melting point:	Not available
Freezing point:	Not available
pH:	8-10
Solubility:	Soluble in water
Evaporation rate:	Not determined
Flash Point:	Not applicable
Flammability:	Not flammable or combustible

LEL/UEL:	Not applicable
Vapour Pressure:	Not determined
Decomposition Temperature:	Not available
Autoignition Temperature:	Not determined
Specific Gravity:	1179 g/L @ 20°C
Partition Coefficient:	Not determined
Viscosity:	Not determined

10. STABILITY & REACTIVITY

Stability:	Stable under normal conditions.
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.
Conditions to Avoid:	No special requirements.
Incompatibility:	Strong acids, strong bases, strong oxidising agents. Keep away from food, feedstuffs, seeds and fertilisers.
Hazardous Decomposition Products:	Hydrogen chloride gas may be formed during a fire.
Hazardous Polymerisation:	This product will not undergo polymerisation reactions.

11. TOXOLOGICAL INFORMATION

ACUTE EFFECTS:	
Acute Effects: Ingestion:	LD ₅₀ 300 to ≤ 2000 mg/kg. Harmful if swallowed.
Acute Effects: Inhalation:	Not expected to be harmful by inhalation under normal conditions of use.
Acute Effects: Skin:	Not expected to be harmful by skin contact. Not expected to be a skin irritant.
Acute Effects: Eye:	Corrosive to eyes.
Sensitisation:	Not expected to be a respiratory or skin sensitiser.
CHRONIC EFFECTS:	
Carcinogenicity, Reproductive Toxicity, or Mutagenicity:	No known carcinogenic, reproductive/developmental or mutagenic effects.
Specific Target Organ Toxicity:	Causes damage to organs/systems via ingestion.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	LC/EC ₅₀ < 1 mg/L Very ecotoxic to aquatic life. Avoid losses to the environment wherever possible.
Persistence/degradability:	Readily biodegradable.
Bioaccumulation:	Not bio accumulative
Soil toxicity:	Very ecotoxic in the soil environment.
Terrestrial vertebrates:	Harmful to terrestrial vertebrates.
Terrestrial invertebrates:	No known toxicity.
Mobility:	Not available

13. DISPOSAL CONSIDERATIONS

Disposal Method:	Product Disposal: Dispose of this product only by using according to the label or at an approved landfill. Avoid contamination of any water supply with product or empty container. Ensure legality of disposal by consulting regulations prior to disposal.
Container Disposal:	Ensure container is completely empty. Triple rinse empty containers before disposal. Recycle through an approved recycling facility or dispose of via an approved waste disposal contractor. Return empty container to an AgRecovery collection point for disposal. If unable to recycle, burn if circumstances, especially wind direction, permit. Otherwise bury in a suitable land fill. 

14. TRANSPORT INFORMATION

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012

Dangerous Goods Classification:	3082
Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MCPA)
Class:	9
UN Number:	3082
Packaging group:	III
Hazchem Code	3Z

Marine Pollutant:	Yes
IMDG EMS	F-A, S-F

15. REGULATORY INFORMATION

All the significant ingredients in this formulation are compliant with NICNAS regulations.

ACVM Act 1997 Registration No:	P008173
HSNO Act 1996, Approval No:	HSR000381
Substance description:	Soluble concentrate containing 720-780g/L MCPA as the dimethylamine salt.
Certified Handler:	Not required
Tracking:	Not required
Compliance Certificate:	Not required
Quantity that must be secured:	Not required
Location Certificate	Not required
Emergency Response Plan:	100L
Secondary Containment:	100L
Signage:	100L
Fire Extinguishers:	No fire extinguisher requirement specified.
Training requirements:	All workplace personnel handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance in accordance with Clause 4.5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017. In addition, any person preparing the product for application or applying the product must be a qualified loader, contractor, or person as applicable. Refer to EPA Hazardous Substances (Hazardous Property Controls) Notice 2017 Part 4, Subpart C.
Other regulatory requirements:	The substance must not be applied onto or into water.

16. OTHER INFORMATION

Glossary

AEL	Acceptable Exposure Limit
DT₅₀	Time (days) for 50% loss
EC₅₀	Median effective concentration

EEL	Environmental Exposure Limit
EPA	Environment Protection Authority
GHS	Globally Harmonised System
HSNO	Hazardous Substances & New Organisms Act
Koc	Organic carbon partition coefficient
LFL	Lower Flammability Limit
LC₅₀	Lethal Concentration in air or water for 50% of test organisms
LD₅₀	Lethal Dose for 50% of test organisms
NOEL	No Observable Effect Level
OSHA	Occupational Safety & Health Administration (USA)
OSH or WorkSafe	WorkSafe New Zealand
PEL	Permissible Exposure Level
Pow	Octanol water partition coefficient (ratio of concentration of a chemical in octanol and water at equilibrium and at a specified temp.)
pH	Measure of acidity/alkalinity of a substance on a 1-14 scale (1=strong acid, 14 = strongly alkali)
STEL	Short Term Exposure Limit
TEL	Tolerable Exposure Limit
TLV	Threshold Limit Value – an exposure limit set by a competent authority
TWA	Time Weighted Average – average concentration of a chemical in air over a total exposure time (usually 8 hours)
UFL	Upper Flammability Limit
WES	Workplace Exposure Standard – set by WorkSafe NZ

The data in this Safety Data Sheet relates only to this product alone, and not to its use in combination with other substances or products. In such circumstances, assuming the combination is permitted (refer to product labels, and contact manufacturer if in doubt), be guided by the most hazardous of the substances involved and observe the more stringent of all hazard controls applicable to the products used.

Date of Safety Data Sheet: 17 June 2024

Reason for Revision: Update to new SDS layout

Revision 1.1 – 5 yearly update and review – 10 February 2024

Version 1.0 – SDS issued - 18 January 2019

Further Information: Rainbow & Brown Limited
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