SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product:	**Extracta Herbicides MCPA 750**
Substance:	Soluble liquid of MCPA
Chemical name of active ing:	IUPAC Name: (4-chloro-2-methylphenoxy)acetic acid CA Name: (4-chloro-2-methylphenoxy)acetic acid
Product Use:	Agricultural herbicide
Restriction of Use:	Refer to Section 15
New Zealand Supplier:	**Wholesale Seeds Limited**
Address:	5 Bryant Street, Ashburton, New Zealand
Telephone No:	03 307 9260
Emergency No:	**0800 CHEMCALL (0800243 622)**
Manufacturer:	**Danken New Zealand Ltd**
Address:	P.O. Box 16194 Hornby Christchurch, 8441
Telephone:	0800 326 536
Date of SDS Preparation:	21 May 2024

Section 2. Hazards Identification

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

EPA Approval No: HSR000381

Pictograms

Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Specific target organ toxicity – repeated exposure Cat. 1	H372	Causes damage to organs through prolonged or repeated exposure.
Serious eye damage Cat. 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms	H421	Hazardous to soil organisms

Hazardous to terrestrial vertebrates	H432	Hazardous to terrestrial vertebrates

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe dust, fumes, gas, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage Code	Storage Statement
None allocated	Keep out of reach of children. Store in the original container, tightly closed, in a locked cool, dry and well-ventilated area away from feed or foodstuffs. Avoid storage at temperatures below 5℃ and above 35℃. Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals. Stores containing 100 L or more of Extracta Herbicides MCPA 750 are subject to signage, secondary containment and an emergency response plan.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt %	CAS NUMBER.
MCPA	60-70	94-74-6
Alcohols, C12-16, ethoxylated	<1	68551-12-2
Non hazardous	To bal	

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes — Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

If on Skin — Take off contaminated clothing and wash before reuse. Rinse skin with soap and plenty of water. If irritation develops, get medical attention.

If Swallowed — 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 Centre. Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

If Inhaled — Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial

respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed.

Symptoms:	Refer to Section 11 for full details.
Swallowed:	Harmful if swallowed.
Inhaled:	Not applicable.
Eye:	Causes serious eye damage.
Skin:	Not applicable.
Chronic:	Causes damage to organs through prolonged or repeated exposure.
Notes to Doctor:	Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable. Considered low risk due to water content, however upon evaporation of water the product is combustible.
Hazards from products	There is no risk of an explosion from this product under normal circumstances if involved in a fire. Product is unlikely to decompose until heated to dryness. On further heating will emit toxic fumes. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk to of exposure to vapour or smoke.
Suitable Extinguishing media	Choose extinguishing media to suit the burning material. Soft stream water fog or fine water spray if no alternatives. Contain all runoff.
Precautions for firefighters and special protective clothing	Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated.
HAZCHEM CODE	**3Z**

Section 6. Accidental Release Measures

Isolate and post spill area. Wear prescribed protective clothing and equipment. Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Large spills should be dyked or covered to prevent dispersal. Vacuum, shovel or pump spilled material into an approved container and dispose of as listed below. Keep out unprotected persons and animals.

To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.
Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Do not breathe dust, fumes, gas, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Avoid contact with eyes and skin and inhalation of particles.
- After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.

- Store in the closed, original container in a cool, well ventilated area.
- DO NOT store for prolonged periods in direct sunlight.
- Avoid storage at high temperatures.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³
Dimethylamine	[124-40-3]	2	3.8	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2023 14TH EDITION.

Engineering Controls

Use in ventilated areas only. Use local exhaust at all process locations. Ventilate all transport vehicles prior to unloading. Keep containers closed when not in use.

Personal Protection Equipment

Eyes	Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.
Skin	When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves. Wash thoroughly before smoking, eating or using toilet facilities. Wash hands after use.
Respiratory	Generally, not required. Use of a respirator may be required in certain circumstances. If an inhalation risk exists, wear a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (Australian Standards).
General	Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

Section 9 Physical and Chemical Properties

Appearance	Transparent Liquid
Colour	Light yellow
Odour	Ammonia like odour.
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available

Vapour Density	Not available
S.g Density	Not available
Water Solubility	Soluble in water.
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.
Possibility of hazardous reactions	No special considerations.
Conditions to Avoid	Do not store for prolonged periods in direct sunlight.
Incompatible Materials	Strong acids, strong bases and strong oxidising agents. Reaction of the concentrate or spray mix with acids will precipitate solid MCPA acid and significantly deactivate 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 (rat) 700 mg/kg.
Hazardous Decomposition Products	Product is unlikely to decompose until heated to dryness. On further heating will emit toxic fumes.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed. Ingestion of the concentrate in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination. MCPA dimethylamine salt LD50 (rat) 1876 mg/kg.
Dermal	Not triggered as hazardous
Inhalation	Not triggered as hazardous. The components of the product are of low volatility and no adverse effects are expected from handling the concentrate. A moderate hazard exists from inhalation of the spray and care should be taken to avoid inhalation of spray mists. LC50 (rat) >1.69 mg/L/4hr.
Eye	Causes serious eye damage.
Skin	Not triggered as hazardous. Unless removed immediately, will cause irritation. Prolonged contact with the concentrate may result in absorption of MCPA in harmful amounts. LD50 (rat) >2,000 mg/kg. Product is not a skin sensitiser.

Chronic Effects:

Carcinogenicity	Not triggered as hazardous.
Reproductive Toxicity	Not triggered as hazardous.
Teratogenic Effects	Not triggered as hazardous.
Germ Cell Mutagenicity	Not triggered as hazardous.
Aspiration	Not triggered as hazardous.
STOT/SE	Not triggered as hazardous.

STOT/RE	Causes damage to organs through prolonged or repeated exposure. Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of MCPA.

Section 12. Ecotoxicological Information

Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms.
Hazardous to terrestrial vertebrates.

Product:	
Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in Soil	No data available.

Environmental Toxicology:
No data is available on this product. Moderate toxicity to aquatic organisms LC50 (96 hr) for rainbow trout is 50 mg/L for MCPA dimethylamine salt. LC50 (48 hr) for daphnia is > 190 mg/L for MCPA dimethylamine salt. LC50 (48 hr) for algae is > 392 mg/L for MCPA dimethylamine salt. MCPA is practically nontoxic to freshwater invertebrates, and estuarine and marine organisms. Non toxic to bees. Moderate toxicity to birds LD50 for bobwhite quail is 270 mg/kg for MCPA.
Environmental Properties: 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. With less than 10% organic matter in soil, MCPA is degraded in 1 day and, with greater than 10% levels in soil, it takes 3 to 9 days to degrade. The half-life is 5 to 6 days in slightly acidic to slightly alkaline soils. MCPA readily leaches in most soils, but its mobility decreases with increasing organic matter. MCPA and its formulations show little affinity for soil. It is relatively stable to light breakdown, but can be rapidly broken down by microorganisms. In sterilized water, it takes about 5 weeks for half of the compound to degrade due to the action of sunlight. In rice paddy water, however, MCPA is almost totally degraded by aquatic microorganisms in under 2 weeks.

Do not allow to enter waterways and drains.

Section 13. Disposal Considerations

Disposal Method:
Triple or preferably pressure rinse containers before disposal. Add rinsing to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection paint. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill 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. Dispose of washings, contaminated materials, used absorbents and other waste materials as directed by local regulations.
Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021

<u>Road, Rail, Sea and Air Transport</u>

UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S (MCPA)
Marine Pollutant	Yes
Special Provisions	If the product's individual container is below 5kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

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

EPA Approval Code: HSR000381

HSW (HS) Regulations 2017 and EPA Notices	**Trigger Quantity**
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	100L
Emergency Response Plan	100L
Secondary Containment	100L
Restriction of Use:	Use as product is intended for.
ACVM Registration Number	P10137

Section 16 Other Information

Glossary

Cat	Category
EC_{50}	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC_{50}	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD_{50}	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, if further information is required.

Issue Date: 21 May 2024 Review Date: 21 May 2029