



**GLOBAL AGRICHEM**  
**SAFETY DATA SHEET**

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Suite 4, level 1, 38 Whitaker Place, Grafton  
Auckland, New Zealand  
Tel: +64 09 972 9837  
Fax: +64 09 353 1736  
info@globalagrlichem.co.nz

Trade name: **MCPB STAR**

Date of issue: 01 October 2015  
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**1. Identification of the Substance and Supplier.**

**Product name:** MCPB Star

**Recommended Use:** Selective herbicide for the control of broadleaf weeds in pasture, grass seed crops, white clover seed crops, peas and cereals.

**Company Details:** Global Agrichem Limited  
Suite 4, level 1, 38 Whitaker Place.  
Grafton, Auckland  
New Zealand

**Web Address:** [www.globalagrlichem.co.nz](http://www.globalagrlichem.co.nz)

**E-mail Address:** [info@globalagrlichem.co.nz](mailto:info@globalagrlichem.co.nz)

**Telephone number:** (09) 972 9837

**Emergency Telephone:** National Poisons and Hazardous Chemicals Information Centre  
Dunedin. Phone: 0800 POISON (0800 764-766)

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**2. Hazards identification.**

Classified by EPA as a hazardous substance according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

**HSNO Hazard Classification:**

6.1D: May be harmful if swallowed  
6.4A: May cause eye irritation  
6.8B: May cause reproductive/developmental damage from repeated oral exposure  
6.9B: May cause organ damage from repeated oral exposure  
9.1A: Very toxic to aquatic organisms  
9.2A: Very toxic to the soil environment  
9.3B: Toxic to terrestrial vertebrates.

**Precautions:** Keep out of reach of children.  
Avoid contact with eyes and skin.  
When handling, wear protective clothing.  
Avoid contamination of any water supply with product or empty containers  
Avoid spray drift which may cause damage to desirable plants.

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### 3. Composition/Information on Ingredients

Ingredient	CAS Number	Content (% w/v)
MCPB Sodium salt	6062-26-6	35.8
MCPA Sodium salt	3653-48-3	4.3
Other non-hazardous ingredients		To 100%

### 4. First aid measures

- First Aid:** For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.
- Inhalation:** Remove patient to fresh air. If not breathing, give artificial respiration. Seek medical assistance if symptoms persist.
- Ingestion:** Do NOT induce vomiting. Rinse mouth thoroughly with plenty of water. For advice, contact the National Poisons Centre (0800 764 766) or a doctor.
- Skin Contact:** Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas thoroughly with soap and water. If symptoms persist, call a doctor.
- Eye Contact:** Immediately rinse eyes and under the eyelids with plenty of running water for at least 15 minutes. Remove contact lenses if present after the first 5 minutes, then continue rinsing the eye. Get medical attention if irritation develops and persists.
- Advice to Doctor:** No specific antidote. Treat symptomatically.
- First Aid Facilities:** Facilities storing or making use of this product should be equipped with an eyewash facility and safety shower.

### 5. Fire-fighting measures

**Fire/Explosion Hazard:** Non-flammable (water based formulation)

**Suitable extinguishing media:**

Dry chemical, water spray (fog), foam or carbon dioxide

**Hazards from combustion:**

In the event of fire the following may be released through thermal decomposition:  
Oxides of carbon and nitrogen.

**Special protective equipment for fire fighters:**

Wear self-contained breathing apparatus, pressure demand : MSHA/NIOSH approved or equivalent and full protective gear.



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**Special fire-fighting methods:**

Keep upwind. Isolate the hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Cool containers with flooding amounts of water. Do not allow run-off from firefighting to enter drains or water courses.

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**6. Accidental release measures**

**Spills and Disposal:** Small spill: absorb with an inert absorbent material such as granular clay, saw dust or pet litter. Sweep up carefully while avoiding the formation of dust. Place in an approved chemical waste container for disposal. Rinse spill area with small amount of soapy water. Contain and absorb the rinsate with inert absorbents and place into the same disposal container. Area can be washed with water to remove the last trace residue. Do not allow water to contaminate water supplies or sewers.  
Large spill: Clear the area of unnecessary personnel. Eliminate all ignition sources. Stop leak if possible without coming into contact with spilled material. Dyke and pump as much as possible to a salvage container. Treat as for small spill, prevent entry into waterways, sewers, basements or confined areas.

**Personal Protection:** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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**7. Handling and storage**

**Precautions for safe handling:**

Do not mix or store in galvanised or unlined steel. Use only in a well ventilated area. When mixing or applying, wear protective clothing: Safety glasses/goggles, cotton overalls, boots and chemical resistant gloves (nitrile or butyl)  
An approved handler is required when this product is applied in a wide dispersive manner or by a commercial contractor.  
No tracking is required, but records of use must be kept if 3 litres or more is used in an area within 24 hours and is likely to enter air or water and leave that place.  
Wash hands, face and protective clothing after use.

**Conditions for Safe Storage:**

Keep out of reach of children.  
Store in the original container tightly closed in a locked dry cool dark area away from foodstuffs or feed.  
Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals. Signage is required for 100 litres or more and an emergency plan and secondary containment, for more than 100 litres.

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### 8. Exposure controls/personal protection

**Occupational exposure limit values:**

No exposure limits (WES, TEL or EEL's) have been specifically assigned to this product.

**Engineering controls:** No special requirements. Product is used outdoors. Handle in well ventilated areas. Generally, natural ventilation is adequate.

**Personal Protective Equipment:**

When handling, mixing or applying, wear protective clothing: Safety glasses/goggles, cotton overalls, boots and chemical resistant gloves (nitrile or butyl)

**Hygiene Measures:** Do not eat, drink or smoke while using the product.  
Remove protective clothing and wash hands and face thoroughly before meals and after work.  
Wash protective clothing daily after work.

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### 9. Physical and chemical properties

**Appearance:** Liquid  
**Colour:** Clear brown  
**Odour:** Practically no odour  
**Density:** 1.14 – 1.18  
**Flash Point:** Not flammable  
**pH:** 10.0 – 12.0  
**Water solubility:** Soluble  
**Formulation type:** Soluble Concentrate (SL)

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### 10. Stability and reactivity

**Chemical Stability:** Stable under recommended storage conditions. Non-flammable.

**Conditions to Avoid:** Avoid mixing with strong acids, alkalis and oxidising agents such as chlorine compounds.

**Hazardous decomposition products:**

Thermal decomposition may lead to the release of oxides of carbon and nitrogen.

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### 11. Toxicological information

**HSNO Classification:** Formulated product:  
6.1D: (Oral) May be harmful if swallowed  
6.4A: May cause eye irritation  
6.8B: May cause reproductive/developmental damage from repeated oral



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exposure  
6.9B: May cause organ damage from repeated oral exposure (liver, kidney and alimentary tract).

**Acute Toxicity:**

Data given is for the active ingredients MCPA and MCPB.  
MCPA - Acute Oral LD<sub>50</sub> rat: 962-1470 mg/kg  
MCPB - Acute Oral LD<sub>50</sub> male rat: 4300 female rat: 5300 mg/kg  
MCPA - Acute percutaneous LD<sub>50</sub> rat: > 4000 mg/kg  
MCPB - Acute percutaneous LD<sub>50</sub> rat: > 2000 mg/kg  
MCPA - Inhalation LC<sub>50</sub> (4 h) rat: > 6.36mg/l  
MCPB - Inhalation LC<sub>50</sub> (4 h) rat: > 1.14 mg/l air

**Irritation:**

MCPA - Not irritating to skin, severe eye irritant.  
MCPB - Not an eye or skin irritant.

**Sensitization:**

MCPA - Not a skin sensitiser  
MCPB - Not a skin sensitiser

**Mutagenicity:**

None

**Carcinogenicity:**

None

**Reproductive Effects:**

Extended animal feeding studies on MCPB have found changes such as decreased testes size, spermatogenic activity, tubular atrophy and prostate atrophy.

**Teratogenicity:**

None.

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### 12. Ecological Information

**HSNO Classification:**

Formulated product:  
9.1A: Very toxic to aquatic life with long lasting effects.  
9.2A: Very toxic to the soil environment.  
9.3B: Toxic to terrestrial vertebrates.

**Ecotoxicity:**

Data given is for the active ingredients MCPA and MCPB.

**Acute Toxicity to Fish:**

MCPA salt - Rainbow trout LC<sub>50</sub> (96 hour): 50 - 560 mg/l  
MCPB - Rainbow trout LC<sub>50</sub> (48 hour): 75 mg/l  
MCPB - Fathead minnow LC<sub>50</sub> (48 hour): 11 mg/l  
MCPA salt - Carp LC<sub>50</sub> (96 hour): 317 mg/l  
MCPA salt - Bluegill sunfish LC<sub>50</sub> (96 hour): 150 mg/l

**Acute Toxicity Aquatic Organisms:**

MCPA - Daphnia LC<sub>50</sub> (48 hour): > 190 mg/l  
MCPA salt - Daphnia LC<sub>50</sub> (48 hour): 55 mg/l  
MCPA - Algae *Selenastrum capricornutum* EC<sub>50</sub>: 392 mg/l  
MCPB salt - Algae *Selenastrum capricornutum* E<sub>b</sub>C<sub>50</sub>: 41 mg/l



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### Acute Toxicity Vertebrates (Birds):

MCPA - Bobwhite quail acute oral LD<sub>50</sub>: 377 mg/kg  
MCPB salt - Bobwhite quail acute oral LD<sub>50</sub>: 282 mg/kg  
MCPA - Bobwhite quail & mallard duck sub-acute dietary LC<sub>50</sub> (5 d): > 5620 mg/kg  
MCPB salt - Bobwhite quail & mallard ducklings LC<sub>50</sub> (8d): > 5000 mg/kg

### Acute Toxicity to Soil Dwelling Organisms:

MCPA - Worms *Eisenia foetida* LD<sub>50</sub> (14 days): 325 mg/kg dry soil

### Acute Toxicity to Terrestrial Invertebrates:

MCPA - Honey bee contact & oral LD<sub>50</sub>: > 200 µg/bee  
MCPB salt - Honey bee contact LD<sub>50</sub>: > 25 µg/bee

### Environmental Fate:

MCPA - Soil DT<sub>50</sub> < 7 days  
MCPB - Soil DT<sub>50</sub>: Estimated 5-7 days  
MCPA - Residual activity in soil estimated 3-4 months (3kg/ha).  
MCPB - Residual activity in soil estimated 6 weeks.

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## 13. Disposal considerations

### Product disposal:

Dispose of this product only by using according to the label or at an approved landfill or other approved facility.

### Container disposal:

Triple rinse the empty container adding the rinsate to the spray tank.  
Recycle if possible, otherwise crush and bury in an approved local authority facility.  
Avoid contamination of any water supply with product or empty container.  
Do not use container for any other purpose.

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## 14. Transport regulations

### Dangerous Goods:

Classified as dangerous goods for transport (9.1A)

### Rail /Road /Sea:

UN Number: 3082  
Class: 9  
Packaging Group: III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (MCPB Sodium 36%, MCPA Sodium 4%)  
Hazchem: 2X  
Maximum quantity on a passenger service vehicle: 1 litre.  
Segregation: Refer to the latest Land Transport Dangerous Goods Rule 45001  
Sea transport may require additional segregation (Refer to NZS5433)

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**15. Regulatory information**

HSNO Approval Number: HSR101026  
HSNO Controls: Refer to [www.epa.govt.nz](http://www.epa.govt.nz) .  
ACVM Approval: Registered pursuant to the ACVM Act 1997 No: P9196  
ACVM Registration conditions: See: [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)

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**16. Other information**

**Abbreviations:**

ACVM: Agricultural Chemicals and Veterinary Medicines Group.  
CAS Number: Chemical Abstracts Service Number  
E<sub>b</sub>C<sub>50</sub>: Median effective concentration (biomass - algae)  
EC<sub>50</sub>: Median effective concentration  
EEL: Environmental Exposure Limit  
EPA: Environmental Protection Authority of New Zealand  
HSNO: Hazardous Substances and New Organisms ACT 1966  
LD<sub>50</sub>: Dose required to kill 50% of test organisms  
LC<sub>50</sub>: Concentration required to kill 50% of test organisms  
TEL: Tolerable Exposure Limit  
WES: Workplace Exposure Standard

**General:**

MCPB Star is a selective herbicide for the control of broadleaf weeds in pasture, grass seed crops, white clover seed crops, peas and cereals. Use only as directed on the label

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*This SDS supersedes all previous issues. It summarises our best knowledge of the health and safety hazard information of the product. All users should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. Since the actual use of this product is beyond the control of Global Agrichem Ltd, we make no warranty, expressed or implied, concerning the use of this product. It is the responsibility of users to ascertain that the product is suitable for intended applications.*

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