



GLOBAL AGRICHEM
SAFETY DATA SHEET

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: **2,4-D POWER**

Date of issue: 01 July 2015
Page 1 of 6

1. Identification of the Substance and Supplier.

Product name: 2,4-D Power
Recommended Use: Herbicide for broadleaf weed control in cereals and pasture.
Company Details: Global Agrichem Limited
Suite 4, level 1, 38 Whitaker Place.
Grafton, Auckland
New Zealand
Web Address: www.globalagrlichem.co.nz
E-mail Address: 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)

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 inhaled
6.3B: Harmful, may cause skin irritation
6.4A: Harmful, may cause eye irritation
6.5B: Harmful, may cause skin sensitisation from prolonged skin contact
6.9A: Toxic, may cause organ damage from repeated oral exposure at high doses
9.1A: Very toxic to aquatic organisms
9.2A: Very toxic to the soil environment
9.3B: Toxic to terrestrial vertebrates

Precautions: Avoid inhalation of spray
Avoid contact with the eyes.
Avoid skin contact
Avoid contamination of any water supply with product or empty containers

3. Composition/Information on Ingredients

Ingredient	CAS Number	Content (% w/w)
2,4-D DMA Salt	2008-39-1	98.0
Sodium tripolyphosphate	7758-29-4	1.0
Sodium carbonate	497-19-8	1.0



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Page 2 of 6

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. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
- Ingestion:** Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
- Skin Contact:** Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
- Eye Contact:** Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.
- First Aid Facilities:** Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
- Advice to Doctor:** Treat symptomatically.
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5. Fire-fighting measures

- Suitable extinguishing media:** Water fog, foam, carbon dioxide or dry chemical.
- Hazards from combustion:** During a fire, may emit toxic fumes of hydrogen chloride, phosgene or amines if involved in fires or exposed to extreme heat.
- Special protective equipment for fire fighters:** Wear full protective clothing and self-contained breathing apparatus.
- Special fire-fighting methods:** Keep upwind. Do not allow run-off from firefighting to enter sewage, effluent systems, drains or water courses.
- Hazchem Code:** 2X
- Other Information:** Location Certificate: Not applicable
Hazardous Atmosphere Zone: Not applicable
Number of Fire extinguishers: Not applicable
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Page 3 of 6

6. Accidental release measures

Spills and Disposal: Exclude non-essential people from the area
Wear protective clothing.
Contain the spill and sweep up solids without generating dust. Contain and absorb liquid spills with absorbent material (e.g. sand, soil or absorbent granules).
If spill does enter waterways, contact the local authority.
Collect the absorbed spill in an appropriate sealable container for disposal in an approved landfill.
Decontaminate the spill area with detergent and water. Absorb with inert material and dispose of waste safely in an approved landfill.

Personal Protection: Ensure suitable personal protection (PPE). Wear eye protection, chemically resistant gloves boots and overalls. If product has spilt from water soluble bags and the possibility of dust generation exists, wear a suitable respirator.

Environmental precautions: Prevent washings from entering surface water drains or waterways. This product is a herbicide and spills can damage crops, pastures and desirable vegetation

7. Handling and storage

Precautions for safe handling: Do not apply this product onto or into water.
Avoid skin and eye contact and inhalation of spray mist
Approved handler: This product must be under the control of an approved handler when applied in a wide dispersive manner or used by a commercial contractor.
Tracking: Not required for this product
Record Keeping: Records of use as described in NZS 8409 Management of Agrichemicals must be kept.
Beware: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.
Application to drains, ditches and irrigation channels must only be made when these waterways are dry and at least one month is allowed to elapse before the channels are used to carry water.
Take extra care when handling water soluble bags.

Conditions for Safe Storage: Keep out of reach of children.
Store in the original container tightly closed in a locked dry cool area away from foodstuffs fertilisers and seeds.
Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals. This includes aggregate storage volume thresholds.
Stores containing 100kg of 2,4-D Power require signage and secondary containment, more than 1,000kg require emergency response plans.



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Page 4 of 6

8. Exposure controls/personal protection

Occupational exposure limit values: No exposure standards have been set for this product

WES TWA for 2,4-D (CAS No 94-75-7): 10ppm

WES TWA for Dimethylamine: 18mg/m³. For vapour: 10ppm.

Engineering controls: Handle in well ventilated areas. Generally, natural ventilation is adequate. Avoid generation of dust when handling solid material. If dust generation is unavoidable, use a forced draught to keep dust away from the operator. Alternatively wear a suitable dust respirator.

Personal Protective Equipment: When opening the container, preparing the spray or applying the product, wear safety goggles, waterproof gloves, waterproof hat, cotton overalls and boots.

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.

9. Physical and chemical properties

Appearance: Granule
Colour: Off-white to beige
Odour: Weak
Flash Point: Not flammable
Density: Not applicable
Vapour Pressure: 1.9×10^{-5} Pa (2,4-D acid @ 25°C)
pH: 4.0 – 6.0
Water solubility: Soluble
Explosion Properties: Dust explosion possible if powder or granule mixed with air.
Oxidising Properties: Not an oxidiser
Formulation: Water Soluble Granule (SG)

10. Stability and reactivity

Chemical Stability: Stable under normal conditions of handling and storage. When stored correctly, this product should show no significant degradation for 2 years from the date of manufacture.

Conditions to Avoid: Prolonged heating of the solid will slowly release dimethylamine.

Incompatible Materials: Reaction of the concentrate or spray mix with acids will precipitate solid 2,4-D and effectively 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 with an oral rat LD50 of 660mg/kg and a Threshold Limit Value (TLV) of 2ppm (TWA) has been set.



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Page 5 of 6

Hazardous Reactions: Keep away from strong oxidising agents

Hazardous Polymerisation: Hazardous Polymerisation is not possible.

11. Toxicological information

Acute Toxicity: Oral LD₅₀ (rat): 625 mg/kg (2,4-D Dimethylamine salt)
Dermal LD₅₀ (rat): 2115 mg/kg (2,4-D Dimethylamine salt)
Inhalation LC₅₀ (rat - 4hrs): 3.5 mg/l (2,4-D Dimethylamine salt)

Inhalation/Ingestion: Ingestion of concentrate in large amounts can result in headache, nausea, lethargy, motor weakness and lack of coordination. Use of water soluble bags avoids any risk of dust formation, inhalation or ingestion.

Irritation: Skin (rabbit): Irritant.
Eye (rabbit): Irritant

Sensitization: Prolonged and repeated skin contact may result in skin sensitisation.

Chronic Effects: Repeated absorption of large amounts of 2,4-D present a risk to the liver and kidneys. No indication of carcinogenicity.

12. Ecological Information

Ecotoxicity: Very Toxic to aquatic life with long lasting effects. Very toxic to soil organisms. Toxic to terrestrial vertebrates. Do not release into the environment.

Environmental Fate: 2,4-D Dimethylamine salt is not rapidly degradable and is not bioaccumulative. Avoid contamination of any water supply with product or empty containers.

Acute Toxicity to Fish: Rainbow trout LC₅₀ (96 hour): 100mg/l (2,4-D Dimethylamine salt)

Acute Toxicity Aquatic Organisms: Daphnia LC₅₀ (48 hour): 1128mg/l
Algae *Selenastrum capricornutum* EC₅₀ (5 days): 33.2mg/l

Acute Toxicity Vertebrates (Birds):
Bobwhite quail Oral LD₅₀: 500mg/kg (2,4-D Dimethylamine salt)

Acute Toxicity to Terrestrial Invertebrates:
Honey bee oral LD₅₀: > 94µg/bee (2,4-D Dimethylamine salt)
Honey bee contact LD₅₀: > 100µg/bee (2,4-D Dimethylamine salt)



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Page 6 of 6

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: 3077
Class: 9
Packaging Group: III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE
SOLID, N.O.S. (Contains 2,4-D 80%)
Hazchem: 2X
Other: Do not carry this product on a passenger service vehicle
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15. Regulatory information

- HSNO Approval Number: HSR100573
HSNO Controls: Refer to www.epa.govt.nz .
ACVM Approval: Registered pursuant to the ACVM Act 1997 No:P9107
ACVM Registration conditions: See: www.foodsafety.govt.nz
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16. Other information

- Abbreviations:** ACVM: Agricultural Chemicals and Veterinary Medicines Group.
EPA: Environmental Protection Authority of New Zealand
CAS Number: Chemical Abstracts Service Number
HSNO: Hazardous Substances and New Organisms ACT 1966
LD₅₀: Lethal Dose 50% (Population)
LC₅₀: Lethal Concentration 50% (Population)
EC₅₀: Effective Concentration 50% (Population)

- General:** 2,4-D Power is a herbicide for use in agriculture. 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.
