



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: **GLAN-UP**

Date of issue: 01 September 2015
Page 1 of 7

1. Identification of the Substance and Supplier.

Product name: Glan-Up (Glyphosate 688 g/kg SG)

Recommended Use: Non selective herbicide.

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:

- 6.1E: Harmful - May be harmful if swallowed, inhaled or absorbed through the Skin.
- 6.3A: Harmful - Skin irritant
- 6.4A: Harmful – Eye irritant
- 9.1B: Toxic - Toxic to aquatic organisms

Precautions: Keep out of reach of children.
Avoid skin and eye contact. Wear protective clothing
Avoid contamination of any water supply with product or empty containers
Prevent spray drift. May cause severe damage to non-target plants

3. Composition/Information on Ingredients

Ingredient	CAS Number	Content (% w/w)
Glyphosate ammonium salt	40465-66-5	75.7
Terwet 1221	26316-40-5	10.0
Other non- hazardous ingredients		To 100%



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Page 2 of 7

4. First aid measures

- First Aid:** For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.
- Inhalation:** Remove patient to fresh air. Lie patient down and keep warm and rested. Seek medical advice if feeling unwell.
- Ingestion:** Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. Seek medical advice 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. Seek medical advice if irritation persists.
- Eye Contact:** Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical advice if irritation persists.
- First Aid Facilities:** Facilities storing or utilizing this material should be equipped with a safety shower and eyewash facility.
- Advice to Doctor:** Treat symptomatically. No specific antidote.
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5. Fire-fighting measures

- Fire/Explosion hazard:** Non-flammable
- Suitable extinguishing media:** Water fog, foam, dry chemical or carbon dioxide. Avoid water jet.
- Hazards from combustion:** This product, or spray solutions of this product, react with galvanised steel or unlined steel (except stainless steel) containers and tanks to produce hydrogen gas which may form a highly flammable or explosive gas mixture.
If involved in a major fire, oxides of nitrogen or phosphorus may evolve.
- 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
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Page 3 of 7

6. Accidental release measures

Spills and Disposal: Floors may be slippery when wet. Exclude non-essential people from the area. Wear protective clothing. Contain the spill and sweep up solids without generating dust (use water to dampen). Contain and absorb liquid spills with absorbent material (e.g. sand, soil or absorbent granules) and place in waste containers. 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.

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

7. Handling and storage

Precautions for safe handling:

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 directly into or onto water.
This product should only be mixed, contained in or sprayed by equipment made from stainless steel, fibreglass, plastic, aluminium, brass or copper. A highly flammable gas (hydrogen) may be formed from the contact of this product with galvanised or unlined steel.
All spray equipment, including pumps, spray tanks, lines, nozzles and landing gear (aircraft) should be thoroughly washed with water after each day of spraying.
Beware: This product is a spray drift hazard. Apply carefully as spray drift may cause serious damage to other desirable plants.

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.
Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals.
Emergency information is required for 5 kg or more of Glan-Up.
Stores containing 1000 kg or more of Glan-Up require signage, secondary containment and emergency response plans.



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Date of issue: 01 September 2015
Page 4 of 7

8. Exposure controls/personal protection

Occupational exposure limit values: No EELs, TELs or WES have been set for 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 opening the container, preparing the spray or applying the product, wear safety goggles, impervious gloves, cotton overalls (worn outside rubber boots) and where exposed to spray mist, a respirator (organic vapour and particulate matter).

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: Liquid
Colour: Clear amber
Odour: Slight amine odour
Boiling point: Approximately 100°C @ 100kPa
Flash point: Not flammable
Specific Gravity: 1.21
pH: 4.5 – 5.5
Water solubility: Soluble

10. Stability and reactivity

Chemical Stability: Stable under normal conditions of handling and storage.

Incompatible materials: Do not mix with strong acids and strong alkalis. Do not place in unlined steel or galvanised equipment.

Possibility of hazardous reactions: Products arising from combustion, reaction or thermal decomposition may be toxic, corrosive or flammable.

Decomposition: Will not occur under normal conditions.



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Page 5 of 7

11. Toxicological information

Acute Toxicity:	Toxicology data has not been determined specifically for this product formulation Data given below is for the active ingredient glyphosate ammonium. Acute oral LD ₅₀ (rat): 4613 mg/kg Acute percutaneous LD ₅₀ (rabbits): > 5000 mg/kg Inhalation LC ₅₀ for rats (whole body): > 1.9 mg/litre of air
Ingestion:	Burning sensation in throat and chest, nausea, vomiting and diarrhoea.
Irritation:	The formulated product is an eye and a skin irritant.
Inhalation:	Irritant. Avoid inhalation of spray mist while applying the product. May cause irritation to mucous membranes and respiratory tract.
Sensitisation:	Not a skin sensitizer (guinea pig).
Carcinogenicity:	Not carcinogenic.
Mutagenicity:	Not mutagenic.
Reproductive Effects:	No adverse effects on reproduction
Teratogenicity:	Not teratogenic.

12. Ecological Information

Ecotoxicity:	Toxic to aquatic life with long lasting effects (9.1B). Avoid contamination of any water supply with product or empty container. Ecotoxicological data has not been determined specifically for this formulated product. Data given below is for the active ingredient glyphosate.
Environmental Fate:	In soil (field) DT ₅₀ 1-130 days depending on edaphic and climatic conditions. In water the DT ₅₀ varies from a few to 91 days. Photodegradation in natural water occurs DT ₅₀ 33-77 days. No substantial photodegradation in soil was recorded over 31 days. In a lab, whole system with water and sediment DT ₅₀ 27-146 days (aerobic) 14-22 days (anaerobic).
Acute Toxicity to Fish:	Rainbow trout LC ₅₀ (96 hour): 86 mg/litre Harlequin fish LC ₅₀ (96 hour): 168 mg/litre Bluegill sunfish LC ₅₀ (96 hour): 120 mg/litre Sheepshead minnow LC ₅₀ (96 hour): > 1000 mg/litre
Acute Toxicity Aquatic Organisms:	Daphnia LC ₅₀ (48 hour): 780 mg/litre Algae <i>Selenastrum capricornutum</i> EC ₅₀ (72 hour): 485 mg/litre Algae <i>Navicula pelliculosa</i> EC ₅₀ (7 days): 42 mg/litre



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Page 6 of 7

Acute Toxicity Vertebrates (Birds):

Acute oral LD₅₀ Bobwhite quail: > 3851 mg/kg
Dietary LC₅₀ for quail and ducks: > 4640 mg/kg diet

Acute Toxicity to Terrestrial Invertebrates:

Honey bee (48 h) oral LD₅₀: 100 µg/bee
Honey bee (48 h) contact LD₅₀: > 100 µg/bee

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.

14. Transport regulations

Dangerous Goods: Classified as dangerous goods for transport (9.1B)

Rail /Road /Sea: UN Number: 3077
Class: 9
Packaging Group: III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Glyphosate ammonium 68%)
Hazchem: 2X
Do not carry this product on a passenger service vehicle.
Segregation: Refer to the latest Land Transport Dangerous Goods Rule 45001
Sea transport may require additional segregation (Refer to NZS5433)

15. Regulatory information

HSNO Approval Number: HSR100994
HSNO Controls: Refer to www.epa.govt.nz .
ACVM Approval: Registered pursuant to the ACVM Act 1997 No: P9173
ACVM Registration conditions: See: www.foodsafety.govt.nz

16. Other information

Abbreviations: ACVM: Agricultural Chemicals and Veterinary Medicines Group.
EEL: Environmental Exposure Limit
EPA: Environmental Protection Authority of New Zealand
CAS Number: Chemical Abstracts Service Number



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Page 7 of 7

HSNO: Hazardous Substances and New Organisms ACT 1966
LD₅₀: Lethal Dose 50% (Population)
LC₅₀: Lethal Concentration 50% (Population)
EC₅₀: Half Maximal Effective Concentration 50% (Population)
TEL: Tolerable Exposure Limit
WES: Workplace Exposure Standard

General: Glan-Up is a non-selective herbicide for the control of many annual and perennial weeds in a wide range of situations. Use only as directed on the label.

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.
