



MSDS OF NAADCO GLUFOSINATE AMMONIUM 200 HERBICIDE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name	NAADCO Glufosinate Ammonium 200 HERBICIDE
Supplier	New Australia Agricultural Development Company Pty Limited
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2. HAZARDS IDENTIFICATION

Hazardous Nature

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Signal word: Danger

Hazard statements: H360FD May damage fertility. May damage the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist or vapour.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention:

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P321 Specific treatment see Safety Directions on product label.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.



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P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use carbon dioxide, foam or dry agent for extinction.

P391 Collect spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with national regulations.

Pictograms:



3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Glufosinate ammonium	77182-82-2	18% (w/w)
Polyethyleneglycolmonoalkylethersulphate, sodium salt	68891-38-3	> 10 % - < 25 %(w/w)
1-methoxypropan-2-ol	107-98-2	> 1 % - < 10 %(w/w)

4. FIRST AID MEASURES

General Information:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

Inhalation: Keep patient calm, remove to fresh air, seek medical attention.

Skin Contact: Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

Eye Contact: Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

Ingestion: If swallowed, do not induce vomiting. Rinse mouth and then drink plenty of water. Contact the Poisons Information Centre on 13 11 26 (Aust).

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray, dry powder, foam, carbon dioxide

Unsuitable extinguishing media for safety reasons:

Water jet

Specific hazards:



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carbon monoxide, carbon dioxide, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Clean-up Methods

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. HANDLING AND STORAGE

Handling:

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Protection against fire and explosion: No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Storage:

Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Check packaging - there may be further storage instructions on the label.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiration Protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)



Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

Hygiene Measures:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Appearance:	Blue
Boiling point:	approx. 100 °C
Freezing point:	No data.
Specific Gravit:	Approximately 1.08.
Solubility in Water:	Soluble.
pH:	6-8
Corrosive hazard:	Not corrosive.
Flashpoint (°C):	~ 60°C.

10. STABILITY AND REACTIVITY

Chemical Stability:

Product is considered stable if stored and handled as prescribed for a period of at least 2 years after manufacture.

Conditions to avoid:

Avoid excessive temperatures. Avoid direct sunlight. See SDS section 7 - Handling and storage.

Incompatible materials:

Strong oxidising agents, strong acids and strong bases.

Hazardous decomposition products:

Oxides of carbon nitrogen and phosphorous, other nitrogen compounds, other phosphorous compounds, hydrogen cyanide, smoke and water.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral:	LD50 (rat) 1910 mg/kg
Acute Toxicity –Dermal:	LD50 (rabbit) 1380 mg/kg
Acute Toxicity –Inhalation:	LC50 (rat) (4hr) >3.22mg/l/4h
Skin corrosion/irritation:	Non-irritant (rabbit)
Serious eye damage/irritation:	Moderately Irritating (rabbit)
Respiratory or skin sensitisation:	Sensitizing (Guinea Pig)
Reproductive/Developmental Effects:	May damage fertility or the unborn child.
Chronic/Subchronic Toxicity Studies:	Prolonged exposure or delayed treatment may cause permanent eye damage.



Carcinogenicity: This product does NOT contain any IARC listed chemicals.

12. ECOLOGICAL AND ECOTOXICOLOGICAL INFORMATION

Ecotoxicity: Assessment of aquatic toxicity: Harmful to aquatic life.
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Toxicity to fish: LC50 (96 h) 34 mg/l, *Oncorhynchus mykiss*

Aquatic invertebrates: EC50 (48 h) 26.8 mg/l, *Daphnia magna*

Aquatic plants: EC50 (72 h) 36 mg/l, *Desmodosmus subspicatus*

Mobility in Soil:

Assessment transport between environmental compartments: The product has not been tested. The statement has been derived from the properties of the individual components. Information on: glufosinate ammonium (ISO); ammonium 2-amino-4(hydroxymethylphosphinyl) butyrate Assessment transport between environmental compartments: Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

Persistence and Degradability:

Biodegradable. Will not accumulate in soils or water.

Bioaccumulative Potential:

Bioaccumulation is not expected to occur.

13. DISPOSAL CONSIDERATIONS

Disposal: Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product. For refillable containers (1000L): Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

14. TRANSPORT INFORMATION

Road and rail transport: Not classified as a dangerous good under transport regulations

Sea transport: Not classified as a dangerous good under transport regulations

Air transport: Not classified as a dangerous good under transport regulations

15. REGULATORY INFORMATION

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

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA)



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16. OTHER INFORMATION

Version 1.0

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The information contained in this MSDS is provided in good faith and is believed to be correct and the date hereof. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the works place including in conjunction with other products.

Please read all labels carefully before using product.