



SAFETY DATA SHEET

Section 1 - Identification of the Material and Supplier

Product Name:	Swan Glufosinate 200 Herbicide
APVMA Approval No.:	96748
Chemical Nature:	Glufosinate-ammonium soluble concentrate
Product Use:	Non-Selective herbicide for use as described on the product label.
Company:	Swan Chemical Holdings Pty Ltd. U2/9 Glossop St Wangara WA 6065 Phone: 1300 289 520 info@swanchemicalholdings.com swanchemicalholdings.com
Creation Date:	February 2026
Poisons Information Centre:	Phone 13 11 26 from anywhere in Australia

Section 2 - Hazards Identification

Statement of Hazardous Nature

Classification of the substance and mixture:

- Acute Toxicity (Oral) Category 4
- Acute Toxicity (Dermal) Category 4
- Eye Irritation Category 2A
- Reproductive Toxicity Category 1B
- Specific target organ toxicity - repeated exposure Category 2
- Hazardous to the aquatic environment - acute: Category 3



GHS Signal word: DANGER

Hazard Statements:

- | | |
|-------------|---|
| H302 + H312 | Harmful if swallowed or in contact with skin. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H360 | May damage fertility or the unborn child. |
| H373 | May cause damage to organs (Nervous system) through prolonged or repeated exposure. |
| H402 | Harmful to aquatic life. |

Precautionary Statement:

- | | |
|------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P103 | Read carefully and follow all instructions. |

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. |
| P264 | Wash contaminated body parts thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P280 | Wear protective gloves/clothing/eye protection. |

Precautionary Statements (Response):

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P303 + P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
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 + P311	IF exposed or concerned: Call a POISON CENTER or physician.
P330	Rinse mouth
P337 + P311	If eye irritation persists: Call a POISON CENTER or physician.
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Section 3 - Composition/Information on Ingredients

Chemical Name	CAS No.	Conc.
Glufosinate-ammonium	77182-82-2	200 g/L
propylene glycol monomethyl ether - alpha isomer	107-98-22	1-10%
Non-hazardous component(s)	-	>60%

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

Section 4 - First Aid Measures**General Advice:**

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.

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

Skin contact: Immediately wash thoroughly with soap and water, seek medical attention.

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

Ingestion: Immediately rinse mouth and then drink 200 - 300 mL water, do not induce vomiting, seek medical attention.

Note to Physician:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labelling phrases available in Section 2 and in the Toxicological assessments available in Section 11., vomiting, diarrhea, abdominal cramps, tremors, hypotony, unconsciousness, coma, convulsions, respiratory disorders, nausea, tachycardia, Symptoms may be delayed for several hours. (Further) symptoms and / or effects are not known.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Section 5 - Fire Fighting Measures

Suitable extinguishing media: Water spray, dry powder, foam, carbon dioxide.

Unsuitable extinguishing media for safety reasons: Water jet.

Specific Hazards: 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.

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Flash Point:	Does not burn.
Upper Flammability Limit:	Does not burn.
Lower Flammability Limit:	Does not burn.
Autoignition temperature:	Not applicable - does not burn.
Flammability Class:	Does not burn.

Section 6 - Accidental Release Measures

Personal precautions: Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions: Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up: For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

Section 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

Segregate from foods and animal feeds.

Further information on storage conditions: Keep only in the original container. Keep container tightly closed and dry; store in a cool place. Keep away from heat. Protect from direct sunlight. Protect from frost.

Storage stability: Storage duration: 60 Months

Section 8 - Exposure Controls and Personal Protection

Components with occupational exposure limits: Propylene glycol monomethyl ether

TWA value: 369 mg/m³ / 100 ppm

STEL value: 553 mg/m³ / 150 ppm (ACGIHTLV)

Personal Protective Equipment

Respiratory 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:

Wear eye/face protection. Use safety goggle with side protection. Use protective eyewear to guard against splash of liquids.

Body Protection:

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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).

General safety and 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.

Section 9 - Physical and Chemical Properties:

Physical State:	Liquid
Colour:	Blue to blue-green
Odour:	Slightly pungent.
Boiling Point:	Approximately 96°C at 100kPa.
Freezing/Melting Point:	Below 0°C.
Volatiles:	Water component.
Vapour Pressure:	2.37 kPa at 20°C (water vapour pressure).
Vapour Density:	As for water.
Specific Gravity:	1.3
Water Solubility:	Completely soluble in water.
pH:	6 - 8 (as supplied)
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	As for water.
Coeff Oil/water Distribution:	No data.
Autoignition temp:	Not applicable - does not burn.

Section 10 - Stability and Reactivity

Conditions to Avoid: Avoid excessive temperatures. Avoid direct sunlight. See SDS Section 7 - Handling and storage.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid: Bases

Hazardous reactions: No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products: Ammonia

Chemical stability: The product is stable if stored and handled as prescribed/indicated.

Reactivity: No hazardous reactions if stored and handled as prescribed/indicated.

Section 11 - Toxicological Information

Routes of Exposure

Acute oral toxicity

Experimental/calculated data: LD50rat (oral): 1,910 mg/kg

Acute inhalation toxicity

LC50 rat (by inhalation): 3.22 mg/L 4 hr

Acute dermal toxicity

LD50 rat (dermal): 1,380 mg/kg

Assessment of acute toxicity

Of moderate toxicity after single ingestion. Of moderate toxicity after short-term skin contact.

Inhalation is not likely in the available physical form. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Other information

The Australian Acceptable Daily Intake (ADI) for glufosinate-ammonium for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2024).

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Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Suspected of damaging the unborn child. May damage fertility.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Section 12 - Ecological 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, *Desmodesmus subspicatus*

Mobility

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

Assessment biodegradation and elimination (H₂O):

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 biodegradation and elimination (H₂O): Not readily biodegradable (by OECD criteria).

Bioaccumulation potential

Assessment bioaccumulation potential:

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

Bioaccumulation potential: Bioconcentration factor: < 1, *Lepomis macrochirus*

Does not accumulate in organisms.

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Other ecotoxicological advice: Do not discharge product into the environment without control.

Section 13 - Disposal Considerations

Sewage disposal-relevant information : Do not empty into drains. Avoid release to the environment. Refer to special instructions.

Waste treatment of containers/packaging: Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance.

Disposal: Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers.

Contaminated packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

Section 14 - Transport Information

UN number:	Not subject to transport regulations
UN proper shipping name	None
Transport hazard class(es)	None
Packing group not assigned:	Not assigned
IMDG:	Not classified as a dangerous good under transport regulations

Section 15 - Regulatory Information

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Standard Schedule 5.

Australian Inventory of Industrial Chemicals: All ingredients are listed or exempt from listing.

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA approval number: 96748.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements.

This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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