# LIBERTY 200SL



**Section 1: Identification** 

Product name: Liberty 200SL

Other names: 200 g/litre glufosinate-ammonium as a soluble concentrate.

Recommended use: A non-selective contact herbicide for the control of a wide ranges

of broadleaf and grass weeds in orchard, vineyards and non-

cropland areas.

Manufacturer/Importer details: AgStar New Zealand Pty Ltd

4 Putakitaki Street, Lincoln,

Christchurch 7608

Distributor: Farmlands Co-operative Society Limited

535 Wairakei Road, Burnside, Christchurch 8053

TEL 0800 200 600

24 hour emergency contact: 0800 CHEMCALL (0800 243622)

National Poisons Centre: 0800 POISON (0800 764766)

Section 2: Hazard identification

Product is classified as hazardous according to the Hazardous

Substances (Hazard Classification) Notice 2020 of the HSNO Act,

1996.

HSNO Approval: HSR100830

Hazardous classification: Skin irritation Category 2, Eye irritation Category 2, Reproductive

toxicity Category 2, Specific target organ toxicity (repeated exposure) Category 1, Hazardous to soil organisms, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment

chronic Category 3.

Pictograms:







Signal word: DANGER

Hazard statements: H315 Cause skin irritation.

H319 Cause serious eye irritation.

H361 Suspected of damaging fertility or the unborn child. H372 Cause damage to organs through prolonged or repeated

exposure.

H412 Harmful to aquatic life with long-lasting effects.

Toxic to the soil environment. Harmful to terrestrial vertebrates.

Prevention statements: P102 Keep out of reach or children.

P103 Read label before use.

P202 Do not handle until all safety precautions are understood

P260 Do not breathe dust/fume/gas/mist/vapors/spray P264 Wash hands, arms and face thoroughly after handling.

P273 Avoid release to the environment.

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P280 Wear protective gloves, protective clothing, eye and face

protection.

Response statements: P101 If medical advice is needed, have product container or label

at hand.

P308+P313 IF exposed or concerned: Get medical

advice/attention.

P314 Get medical advice/attention if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical

advice/attention.
P391 Collect spillage

Storage statements:

Disposal statement: P501 Dispose of product and containers in accordance with local

Regulations. See Section 13 for details.

Additional Label

Requirements: Do not apply into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond

the application area.

### Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

Ingredient	CAS No.	Proportion
Glufosinate-ammonium	77182-82-2	192 - 208 g/L
Other ingredients	Proprietary	To 100

### Section 4: First-aid measures

First aid measures: If medical advice is needed, have product container or label at

hand. For advice contact National Poisons Centre 0800 POISON

[0800 764 766] or a doctor.

Ingestion: Do NOT induce vomiting. Rinse mouth. Call a POISON CENTRE

or doctor for advice if you feel unwell.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for

breathing. Call a POISON CENTRE or doctor if person feels unwell. If person is not breathing dial 111 for an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Wash with plenty of soap and water. Wash contaminated clothing

Skin contact: Wash with plenty of soap and water. Wash contaminated clothin

before reuse. If skin irritation or rash occurs get medical

attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If irritation

persists, get medical attention.

First aid facilities: Provide eye baths and safety showers close to areas where

product contact or splashing may occur.

Advice to doctor: Treat symptomatically.

### Section 5: Fire-fighting measures

Flammability: Non-flammable.

Appropriate extinguishing

media: Water spray, dry powder, carbon dioxide.

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Hazardous decomposition

products:

In a fire, the following may be released:, Carbon monoxide (CO),

Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NOx), Oxides of

phosphorus

Special protective equipment and precautions for fire-

fighters:

In the event of fire, wear self-contained breathing apparatus. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

Prevent run-off from contaminating drains, sewers or waterways. Inform appropriate authorities immediately if product or run-off

enters waterways.

HAZCHEM code: 3Z

#### Section 6: Accidental release measures

Personal precautions: Wear protective clothing (overalls buttoned at wrist and neck),

chemical resistant gloves and boots and chemical goggles or

face shield.

Environmental precautions: Contain and collect spillage. Prevent chemical contaminating

drains or watercourses by activating emergency shut-off valves or using bunding. Inform appropriate authorities immediately if spill enters waterways or sewers. Prevent chemical contaminating soil. Collect spill and absorb residues with inert absorbent material

Procedure for clean up:

such as sand, soil or clay granules. Collect into an appropriate, labelled, waste container and dispose of at an approved facility. Prevent runoff entering waterways or contaminating the soil.

#### Section 7: Handling and storage

Safe handling: Read label before use. Use only outdoors or in a well-ventilated

area. Wear protective clothing; chemical goggles or a face shield, impervious gloves, overalls and boots when handling.. Wash splashes from skin immediately. Remove protective clothing and wash hands and face thoroughly before meals and after work.

Wash contaminated clothing before re-use.

Safe storage: Store in original container tightly closed and in a locked dry, cool,

well-ventilated area, away from foodstuffs, fertilizers and seeds. Store in accordance with the current version of NZS 8409

Management of Agrichemicals. Stores containing more than 1000 litres require secondary containment, signage and an emergency

response plan.

### Section 8: Exposure controls/personal protection

Occupational exposure limits: Ingredient CAS No. WES-TWA WES-STEL

Glufosinateammonium 77182-82-0 - -

Biological limit value: None set as of WorkSafe's 14<sup>th</sup> edition of WES and BEI values,

published November 2023.

Engineering controls: Use only in well-ventilated areas. If necessary, use local exhaust

ventilation to keep airborne concentration below the exposure

limits.

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Respiratory protection: Wear half or full mask fitted with vapour filter when mixing or

applying spray.

Hand protection: Elbow length, chemical resistant gloves (e.g. PVC, rubber,

neoprene or nitrile).

Eye protection: Goggles with side pieces or a face shield.

Skin protection: Overalls and PVC or rubber boots.

General hygiene: Do not eat, drink or smoke while using. Wash hands and exposed

skin thoroughly with soap and water before meals and after work.

Wash protective clothing daily after work.

Personal Protection: Further information on specific types of personal protective gear

and related standards is available in Section 16.

### Section 9: Physical and chemical properties

(a) Appearance: Clear blue liquid(b) Odour: Characteristic.(c) Odour threshold: Not available.

(d) pH: 6.0 - 8.0 (1% aqueous solution).

(e) Melting point/freezing

point: Not available.

(f) Initial boiling point and

boiling range: >100°C.

(g) Flash point: Not applicable(h) Flammability (solid, Not applicable.

gas):

(i) Upper/lower

flammability or

explosive limits: Not available.

(j) Vapour pressure: No data available.

(k) Vapour density: No data available.

(l) Relative density: No data available

(m) Solubility: Soluble in water.

(n) Partition coefficient:

n-octanol/water: Not available.

(o) Auto-ignition

temperature: Not available.

(p) Decomposition

temperature: Not available.
(q) Kinematic viscosity: Not available.
(r) Particle characteristics Not applicable.

### Section 10: Stability and reactivity

Stability of the substance: Product is unlikely to react or decompose under normal conditions

of storage and use.

Conditions to avoid: Keep out of direct sunlight and protect from frost.

Incompatible materials: Strong acids, alkalis or oxidising materials.

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Hazardous decomposition

products:

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides

(NOx), Oxides of phosphorus

**Section 11: Toxicological information** 

Toxicity classifications determined by assessment of the

components in the formulated mixture.

Not classified a) Acute toxicity: b) Aspiration hazard: Not classified. Not classified. c) Respiratory irritation:

d) Skin corrosion /

irritation: Cause skin irritation

e) Serious eye damage /

irritation: Cause serious eye irritation.

Respiratory or skin f)

> sensitisation: Not classified

g) Germ cell

Not classified. mutagenicity: h) Carcinogenicity: Not classified.

Reproductive toxicity: Suspected of damaging fertility or the unborn child

Causes target organ damage from repeated oral exposure at high j) Specific organ toxicity:

Not classified. k) Narcotic effects: I) Other adverse effects: No information.

m) Toxicological information for

> Glufosinate-Acute oral LD<sub>50</sub> (rat): 420 mg/kg bodyweight

ammonium: Acute dermal LD<sub>50</sub> (rat): > 2000 mg/kg bodyweight

Acute inhalation LC<sub>50</sub> 4 hr (rat): 1.26 mg/l

Section 12: Ecological information

Ecotoxicological classifications determined by assessment of the

active ingredient.

Aquatic ecotoxicity: Harmful to aquatic organisms with long lasting effects. (a)

Toxic to the soil environment Soil ecotoxicity (b)

Terrestrial vertebrate (c) ecotoxicity:

Harmful to terrestrial vertebrates.

Terrestrial invertebrate (d)

> Not classified. ecotoxicity:

(e) Persistence and

> degradability: DT<sub>50</sub> (typical) 7.4 days

(f) Potential to be

bioaccumulative: No data available No data available

Mobility in soil. (g) (h)

Ecotoxicological

information for active ingredient

(Glufosinate-LC50 (96 hr) for rainbow trout is 710 mg/L

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ammonium): LC50 (96 hr) for bluegill sunfish is >1000 mg/L

EC50 (48hr) for daphnia is 560 mg/L LD50 for Japanese quail is >5000 mg/L

### Section 13: Disposal considerations

Product disposal: Dispose of this product only by using according to the label or

through an agricultural chemical disposal or hazardous substance

service. Do not allow material to contaminate ground water

system or surface water.

Container disposal: Triple rinse container and add rinsate to the spray tank. Take to

an agrichemical recovery collection site.

### **Section 14: Transport information**

UN number: 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (GLUFOSINATE-AMMONIUM 20%)

UN class: 9
Packing group: III
HAZCHEM: 3Z
Marine pollutant: Yes
Special precautions: -

This product is classified as a Dangerous Good Class 9. Consult

the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2012 Transport of Dangerous Goods on Land for more

information.

### **Section 15: Regulatory information**

HSNO: Approved substance under the HSNO Act 1996.

Substance approval number: Tolerable exposure limit /

HSR100830

environmental exposure limit:

No limits set.

HSNO controls:

See <u>www.epa.govt.nz</u>

Qualifications Yes Tracking: No

Safety Data Sheet: Any quantity

Restricted to workplace only: No
Quantity that must be secured when unattended:
Fire extinguishers Quantity for secondary 1000 L

containment and emergency

response plan:

Quantity for signage: 1000 L

Quantity for Location -

certificate

Records of use (3 kg or more Yes

applied to area within 24

hours)

Quantity that requires -

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management in accordance with HSW HS Regulations

Hazardous Substances (Packaging) Notice 2017;

Clause 9

**UN Pack Group III** 

Additional controls:

Additional information: Take all reasonable steps to ensure that the substance does not

cause any significant adverse effects to the environment beyond

the application area.

Refer to WorkSafe for additional information on controls in the

workplace; www.worksafe.govt.nz.

ACVM: Registered under the Agricultural Compounds Veterinary

Medicines Act 1997.

Registration number: P09973

Conditions of registration: See www.foodsafety.govt.nz

### **Section 16: Other information**

Date of issue: 19/05/2025
Reason for reissue: Updated label
Replaces: Not applicable

Information references: Supplier Safety Data Sheet

NZ EPA Approved hazardous substances databases.

Workplace Exposure Standards and Biological Exposure Indices

Abbreviations: ACVM: Agricultural Chemicals and Veterinary Medicines Group

Bw: Bodyweight.

HSNO: Hazardous substances and New Organisms Act 1996

(HSNO Act)

EPA: Environmental Protection Authority of New Zealand CAS Number: Chemical Abstracts Service Number

LD50: Lethal Dose 50% (Population)

LC50: Lethal Concentration 50% (Population)

WES-TWA: Workplace exposure standards - Time-weighted

average

WES-STEL: Workplace exposure standards – Short-term

exposure limit

Personal Protection

Standards:

The following Standards provide general advice regarding safety

clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial

Eye Protection: AS1336 and AS/NZS 1337, Occupational

Protective Footwear: AS/NZS2210

The data provided in this safety data sheet is based on current knowledge and experience. The purpose of this document is to describe the product in terms of its safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.