

SAFE DATA SHEET

Last revised June 2024

LIBERTY 200SL

SAFETY DATA SHEET

Section 1: IDENTIFICATION**1.1 Identifiers**Product Name: **Liberty 200SL**

200g/L Glufosinate-ammonium SL

CHEMICAL NAME: ammonium [(3*RS*)-3-amino-3-carboxypropyl]methylphosphinate

CAS NUMBER: 77182-82-2

1.2 Recommended use of the chemical and restrictions on use

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.

1.3 Supplier contact details

Company: AGSTAR NEW ZEALAND LIMIED

Address: 4 Putakitaki Street Lincoln, 7608

Telephone: +64 27 483 9756

Email: john@agstar.co.nz

24 hour emergency contact: 0800 CHEMCALL (0800 243622)

National Poisons Centre: 0800 POISON (0800 764766)

Section 2: HAZARDS IDENTIFICATION**2.1 Hazardous Classification**

Product is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996, HSR100830

HSNO Classification	Hazard Statement
6.1E	May be harmful if swallowed, inhaled or absorbed through the skin
6.3A	May cause skin irritation
6.4A	May cause eye irritation
6.8B	May cause reproductive/development damage from repeated ingestion
6.9A	May cause kidney damage from repeated ingestion at high doses
9.1C	Harmful to aquatic organisms
9.2B	Very toxic to some plant species
9.3C	Harmful to terrestrial vertebrates

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2.2 Label elements

Pictogram:



Signal word: WARNING

Hazard Statements

H360FD May damage fertility. May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

P102 Keep out of the reach of children

P103 Read label before use

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

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

P314 Get medical advice/attention if you feel unwell.

P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national regulations.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS NO	Content, g/L
Glufosinate-ammonium	77182-82-2	200
Other ingredients	-	Up to 100%

Section 4 - FIRST AID MEASURES

4.1 Description of first aid measures

General Information: 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.

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Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact

Take off contaminated clothing and wash before re-use. Wash with soap and water. Get medical attention if irritation develops.

Inhalation

If inhaled, remove to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

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.

4.2 Symptoms caused by exposure

Unlikely to cause harmful effects under normal conditions of handling and use.

4.3 Medical attention and special treatment

Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES**5.1 Flammability:**

Non-flammable

5.2 Suitable Extinguishing media:

Dry chemical, water spray or carbon dioxide

5.3 Specific hazards arising from the chemical

In the event of fire the following may be released: Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Oxides of phosphorus

5.4 Special protective equipment and precaution for fire fighters

When fighting fires involving significant quantities of this product, wear a splash suit complete with self contained breathing apparatus. There is no risk of explosion from this product under normal circumstances if it is involved in a fire.

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Wear protective clothing (overalls buttoned at wrist and neck), chemical resistant gloves and boots and chemical goggles or face shield.

6.2 Environmental precautions

In the event of a major spill, prevent spillage from entering into drains and water courses.

6.3 Method and materials for containment and cleaning up

Absorb spillage with inert material such as spill kit, sand or cat litter. Collect and place in a sealable container for disposal. Wash down affected area with water and detergent. Absorb and collect washings for disposal. Dispose of safely to a suitable landfill.

Section 7 - HANDLING AND STORAGE**7.1 Precautions for Handling**

Read label before use. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash hands thoroughly after handling. For personal protection see section 8.

7.2 Conditions for safe storage

Keep in a tightly closed original container, stored in a cool, dry, ventilated area. Protect against physical damage. Separate from acids and oxidizing materials.

Keep out of reach of children.

Section 8 - EXPOSURE CONTROLS / PPE**8.1 Control parameters – exposure standards, biological monitoring****Exposure Limit:**

No exposure standard has been established for this product

8.2 Engineering Controls

No special ventilation requirements are normally necessary for this product.

8.3 Personal Protection

Use only protective equipment bearing the mark of the Standards Association with Australia/ New Zealand. In case of heavy exposure, wear dust mask, goggles, chemical resistant gloves and heavy duty cotton overalls.

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Change work clothes daily. May irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale dust or spray mist. If product gets on skin immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Section 9 - PHYSICAL/CHEMICAL PROPERTIES

Appearance: Blue liquid

Odour: Non specific

PH:6.0-8.0

Melting Point: Not available

Boiling Point: > 100° C

Flash Point: Non-flammable

Flammability (Solid, gas) : Not applicable

Upper/lower flammability or explosive limits: Not available

Vapour pressure: No data available

Vapour density: No data available.

Relative density: ca 1.10

Solubility: Disperse in water.

Partition coefficient: not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available.

Kinematic viscosity: Not available.

Particle characteristics: Not applicable

Section 10 - STABILITY AND REACTIVITY**10.1 Reactivity**

This product is unlikely to react or decompose under normal storage conditions.

10.2 Storage Stability

When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.

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Protect from extreme temperatures

10.4 Incompatible Materials

No data available

10.5 Polymerisation

This product will not undergo polymerisation reactions.

Section 11 - TOXICOLOGICAL INFORMATION**11.1 Health hazard information**

Potential Health Effects. This section includes the possible adverse health effects that could occur if the substance is not handled as recommended.

11.2 Toxicity informationAcute Oral LD₅₀ (rat) 420mg/kgAcute Dermal LD₅₀ (rabbit) 2,000mg/kgAcute Inhalation LC₅₀ (rat) 1.26 mg/L (4 hours)

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May be harmful if swallowed.

Section 12 - ECOLOGICAL INFORMATION

The following information is presented in respect of the active ingredient:

Harmful to aquatic life. Toxic to the soil environment. Harmful to terrestrial vertebrates.

Acute Toxicity - Fish

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

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

EC50 (48hr) for daphnia is 560 mg/L

Acute Toxicity - Bird

LD50 for Japanese quail is >5000 mg/L

Persistence/degradability: Glufosinate-ammonium is very soluble in water and is hydrolytically and photolytically stable. It is rapidly degraded in surface levels of soils and in water. This product is

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considered to be readily biodegradable. The potential for groundwater contamination with Glufosinate-ammonium is minimal. Glufosinate-ammonium does not accumulate in the fatty tissues of fish or other animals.

Section 13 –DISPOSAL CONSIDERATIONS**13.1 Product Disposal**

Refer to product label. If possible, dispose of by using according to the label. Do not dispose of this product down drains or sewers. Follow all local, regional and national laws and regulations regarding hazardous waste disposal.

13.2 Container Disposal

Triple rinse container and add residue to spray tank. Recycle clean, empty container through an agrichemical recycling service if possible or crush and bury in an approved landfill. Do not use container for any other purpose. Avoid contamination of any water supply or stream with product or empty container

Section 14 - TRANSPORT INFORMATION**This product is classified as a Dangerous Good for transport in NZ**

UN Number: 3082

Class primary: 9

Packing group: III

Marine pollutant Yes

Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S,
(Glufosinate-ammonium 200g/L SL)**Section 15 - REGULATORY INFORMATION****New Zealand**

Product is classified as hazardous according to the Hazardous Substances (Hazard Classification)

Notice 2020 of the HSNO Act, 1996, HSR100830

HSNO Classification: 6.1E, 6.3A, 6.4A, 6.8B, 6.9A, 9.1C, 9.2B, 9.3C

See www.epa.govt.nz

Qualifications Yes

Tracking: No

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Safety Data Sheet:	Any quantity
Restricted to workplace only:	No
Quantity that must be secured when unattended:	-
Fire extinguishers	-
Quantity for secondary containment and emergency response plan:	100 L
Quantity for signage:	100 L
Quantity for Location certificate	-
Records of use (3 kg or more applied to area within 24 hours)	Yes
Quantity that requires 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: P9973 See www.foodsafety.govt.nz

Section 16 - OTHER INFORMATION

Issue Date: June 12, 2024

Reason for reissue: New product

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)

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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 given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

End of Safety Data Sheet