

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

PRODUCT NAME: BASTNATE
 OTHER NAME: Soluble concentrate containing 200 g/L glufosinate-ammonium
 USE: Herbicide
 SUPPLIER NAME: AGPRO NZ Ltd
 SUPPLIER ADDRESS: 10 Polaris Place, East Tamaki, Auckland 2013
 PO Box 58-963, Botany, Auckland 2163
 SUPPLIER CONTACT: 09 273 3456 or freephone 0508 536 536
 www.agpro.co.nz
 POISON INFORMATION: National Poison Centre, 0800 POISON (0800 764 766) 24 hours
 CHEMICAL EMERGENCY: 0800 CHEMCALL (0800 243 622) 24 hours

2. HAZARDS IDENTIFICATION

NEW ZEALAND: Hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996

APPROVAL NUMBER: HSR100830

HAZARD CLASSIFICATIONS: 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: Causes skin irritation.
 Causes serious eye irritation.
 Suspected of damaging fertility or the unborn child from repeated oral exposure.
 Causes damage to organs through prolonged or repeated oral exposure at high doses.
 Harmful to aquatic life and with long lasting effects.
 Toxic to soil organisms.
 Harmful to terrestrial vertebrates.

PREVENTION: Keep out of reach of children
 Read label before use.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe mist/vapours/spray.
 Do not eat, drink or smoke when using this product.
 Wash hands thoroughly after handling.
 Wear protective gloves and eye protection.
 Use personal protection equipment as required.
 Avoid release to the environment.

RESPONSE: If medical advice is needed, have product container or label on hand.
 Get medical advice if you feel unwell.
 IF exposed or concerned: Get medical advice/attention.
 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
 If skin irritation occurs: Get medical advice.
 Take off contaminated clothing and wash before re-use.

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

If eye irritation persists: Get medical advice.

Collect spillage.

STORAGE: Store locked up.

DISPOSAL: Dispose of unwanted product and used packaging in compliance with local regulations.

TRANSPORT: BASTNATE is NOT classified as a Dangerous Goods for Transport.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS No.	% w/w
Glufosinate-ammonium	77182-82-2	18 - 19
Other ingredients	Trade secret	balance to 100

*equivalent to 200 g/L Glufosinate-ammonium

4. FIRST - AID MEASURES

Contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor for advice. If exposed or concerned, get medical advice.

Have product label or SDS at hand.

Ingestion If swallowed, do NOT induce vomiting. Rinse mouth with water. Immediately contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor for advice.

Inhalation Remove patient to fresh air. Keep in position comfortable for breathing.
If breathing is shallow or has stopped ensure airway is clear, apply resuscitation and seek medical assistance immediately.

Skin contact Remove contaminated clothing and wash with soap and running water. If irritation occurs, get medical advice.

Eye contact If in eyes flush with plenty of water holding eyelids open if necessary. Remove contact lenses if present, after a few minutes, then continue flushing with water. Get medical advice if irritation persists.

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability: Product will not burn.

Hazardous Combustion Products: If involved in a fire, may evolve toxic/harmful compounds including oxides of carbon and nitrogen.

Extinguishing Media: Foam, water fog or spray, carbon dioxide or dry chemical as appropriate to surrounding materials.

Protective Equipment: Full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Wear personal protective equipment. Exclude non-essential people from the area. Contain spillage.
Collect spillage in labelled containers than can be closed, for reuse or disposal. Absorb spills with inert material and place in a sealable labelled waste container. Dispose of waste safely in an approved landfill or hazardous waste facility.

Environmental Precautions: Prevent from entering drains, waterways or sewers. If spill does enter waterways immediately contact local authority. BASTNATE is a herbicide and spillage on soil may damage crops.

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Read label before use. Keep container tightly closed when not in use. Use only according to label.

Wear personal protective equipment. Avoid contact with skin and eyes and inhalation of vapours or spray mist.

Contaminated work clothing should not be allowed out of the workplace. Use outdoors or in well-ventilated area. Do not apply directly into or onto water. Take all reasonable steps to ensure the product does not cause any significant adverse effects to the environment beyond the application area.

Storage: Signage, an emergency response plan and secondary containment are required when 1000 L or more is on site. Store in original container tightly closed and in a locked well-ventilated area away from foodstuffs, fertilisers and seeds. For guidance refer to the current version of NZS 8409 Management of Agrichemicals and the Health and Safety at Work (Hazardous Substances) Regulations 2017.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: Worksafe NZ (12th edition, November 2020)

<i>Ingredient</i>	<i>Exposure</i>	<i>Form</i>	<i>WES-TWA</i>
No ingredients listed			

Protective Equipment: When opening the container, preparing to measure, load or when applying: wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.

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**.

Engineering Controls: Handle outdoors or in a well-ventilated area. Use local exhaust ventilation, or other engineering controls as appropriate to conditions.

Hygiene Precautions: Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing and equipment daily after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue liquid
Odour:	Non-specific
Odour threshold:	No information available.
pH	4.5 -6.5 (1% aqueous)
Melting point/freezing point:	Not available
Initial boiling point/range:	Not available
Flashpoint:	> 93°C
Flammability (solid, gas):	Not applicable
Upper/lower flammability limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	ca 1.1
Solubilities:	Soluble in water
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	No information available
Decomposition temperature:	Not available
Kinematic viscosity:	Not available
Particle characteristics:	Not applicable

10. STABILITY AND REACTIVITY

Stability:	Stable under normal storage conditions in original container for at least two years. Relatively stable in natural, weakly acidic and weakly alkaline media.
Conditions to avoid:	Contact with incompatible materials.
Incompatible substances or materials:	Strong acids and strong bases.
Hazardous polymerization:	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Not classified as being acutely toxic.
Aspiration hazard:	Not classified.
Respiratory irritation:	Not classified.
Skin corrosion/irritation:	Skin irritant.
Serious eye damage/irritation:	Serious eye irritant.
Respiratory or skin sensitization:	Not classified.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Glufosinate-ammonium is suspected of damaging fertility and the unborn child.
Specific organ toxicity:	BASTNATE may cause damage to organs or systems from repeated exposure. Glufosinate-ammonium is possible toxicant to the kidneys, bladder, blood system and lungs.
Narcotic effects:	No components identified with narcotic effects.
Toxicological information:	<u>Glufosinate-ammonium (active ingredient)</u> Oral, mouse, LD ₅₀ 420 mg/kg bw Dermal, rabbit LD ₅₀ 2000 mg/kg bw Inhalation, rat LC ₅₀ (4 hr) 1.26 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity:	BASTNATE is classified as being harmful to aquatic life and with long-lasting effects. BASTNATE is also toxic to soil organisms and harmful to terrestrial vertebrates.
Ecotoxicological information:	<u>Glufosinate-ammonium (active)</u> Fish: <i>Oncorhynchus mykiss</i> LC ₅₀ (96 h) 710 mg/L Crustacean: <i>Daphnia magna</i> EC ₅₀ (48 h) 668 mg/L Algae: <i>Scenedesmus quadricauda</i> EC ₅₀ (72 h) growth 46.5 mg/L Aquatic plant: <i>Lemna gibba</i> EC ₅₀ (7d) growth, 1.47 mg/L Bird: <i>Coturnix japonica</i> LD ₅₀ >2000 mg/kg bw
Persistence and degradability:	<u>Glufosinate-ammonium (active)</u> DT ₅₀ (typical) 7.4 days; DT ₅₀ (field) 7 days.
Potential to be bioaccumulative:	Glufosinate-ammonium has not been identified as being bioaccumulative.
Mobility in soil:	Glufosinate-ammonium is soluble but expected to have low leachability in soil.
Other adverse effects:	No information available.
Environmental Exposure Limits (EEL):	Not available.

13. DISPOSAL CONSIDERATIONS

- Product Disposal: Dispose of product only by using according to label or dispose of at an approved landfill.
- Container Disposal: Ensure container is completely empty. Triple rinse with water add rinsate to the spray tank. Dispose of empty clean container to recycler for agricultural chemicals, otherwise crush and bury in an approved landfill. Do not use container for any other purpose.

14. TRANSPORT INFORMATION

Not classified as Dangerous Goods according to the LAND TRANSPORT RULE: DANGEROUS GOODS 2005; NZS 5433:2020; IMDG; or IATA

15. REGULATORY INFORMATION

New Zealand Registered pursuant to the ACVM Act 1997, No. P8753
 See www.foodsafety.govt.nz for registration conditions
 Approved pursuant to the HSNO Act 1996, Approval Code HSR100830
 See www.epa.govt.nz for Controls and www.worksafe.govt.nz.

Qualifications	Not required
Tracking:	Not required
Safety Data Sheet:	Any quantity
Restricted to workplace only:	No
Quantity that must be secured when unattended:	Not applicable
Fire extinguishers	Not required
Quantity for secondary containment and emergency response plan:	1000 L
Quantity for signage:	1000 L
Quantity for Location certificate	Not required
Records of use (3 kg or more applied to area within 24 hours)	No
Quantity that requires management in accordance with HSW	10,000 L
HS Regulations	
Other controls	Maximum rate 10 L/ha (2.03 kg ai/ha) applied a maximum of two times a year, and minimum application interval of 90 days. Apply by ground-based methods only.

16. OTHER INFORMATION

Version: 2.1

Issue Date: 14 June 2023

Reason for Issue: Supplier's contact details updated.

Replaces: SDS dated April 2022

References:

Supplier Safety Data Sheets

NZ EPA Approved hazardous substances databases.

Worksafe NZ Workplace Exposure Standards and Biological Exposure Indices

NZS 5433:2020 New Zealand Standard Transport of Dangerous Goods on Land

University of Hertfordshire Pesticides Properties Database (PPDB)

Abbreviations:

ACVM	Agricultural Chemicals and Veterinary Medicines Group
ADI	Acceptable Daily Intakes
BCF	Bioconcentration factor
CAS Number	Chemical Abstracts Service Registry Number
CCID	Chemical Classification Identification Database
EPA	Environmental Protection Authority
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HSNO	Hazardous Substances and New Organisms
HS	Health and Safety
HSR	Hazardous Substances Register
IARC	International Agency for Research on Cancer
LC ₅₀	Median Lethal Concentration
LD ₅₀	Median Lethal Dose (50% population)
SDS	Safety Data Sheet
NOAEL	No Observable Adverse Effect Level
NOEL	No Observable Effect Level
NOS	Not otherwise specified
STEL	Short Term Exposure Limit
TWA	Time-Weighted Average
UN Number	United Nations Number
WES-STEL	Workplace exposure standards – Short-term exposure limit
WES-TWA	Workplace exposure standards – Time-weighted average

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.