Patriot



Section 1: Identification

Product name: Patriot

Other names: Soluble concentrate containing 200 g/litre glufosinate-ammonium.

Recommended use: A non-selective contact herbicide for the control of a wider range

of grasses, broad leaf weeds and clovers in a variety of crop land

and non-crop land situations.

Manufacturer/Importer details: Agritrade

1 Robin Mann Place Christchurch Airport

PO Box 292, Christchurch 8140

Phone: 03 372 0890

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 (Classification) Notice 2017 of the HSNO Act, 1996.

HSNO Approval: HSR000152

Hazardous classification: 3.1D, 6.1D, 6.3B, 6.4A, 6.8B, 6.9A, 9.1C, 9.2B, 9.3C

Pictograms:







Signal word: DANGER

Hazard statements: H227 Combustible liquid.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H316 Causes mild skin irritation. H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

H412 Harmful to aquatic life with long lasting effects.

H422 Toxic to the soil environment. H433 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 have been read

and understood.

P210 Keep away from open flames and hot surfaces. No smoking.

Patriot



P280 Wear protective gloves, protective clothing, eye and face

protection.

P264 Wash hands, arms and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

P260 Do not breathe spray mist.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

Response statements: P370+P378 In case of fire: Use water spray, foam, dry powder or

carbon dioxide for extinction.

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

at hand.

P307+P311 IF exposed or concerned: Call a POISON CENTRE

or doctor.

P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor

if you feel unwell.

P330 Rinse mouth.

P304+P340 IF INHALED: Remove to fresh air and keep at rest in

a position comfortable for breathing.

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

P363 Wash contaminated clothing before re-use.

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

P391 Collect spillage.

Storage statements: P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

Regulations. See Section 13 for details.

Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

Ingredient	CAS No.	Proportion %w/v
Glufosinate-ammonium	77182-82-2	20
Propylene glycol monomethyl ether	107-98-2	<10
Other ingredients	Proprietary	30 – 60
Water	7732-18-5	To 100

Section 4: First-aid measures

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

doctor 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 you feel unwell.

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

before reuse. If skin irritation occurs get medical attention.

Patriot



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

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

persists, get medical attention.

First aid facilities: Emergency showers and eyewashes to be available in the

immediate vicinity of any potential exposure.

Advice to doctor: Treat symptomatically.

Section 5: Fire-fighting measures

Flammability: Combustible liquid.

Appropriate extinguishing

media:

Extinguish fire with foam, dry powder, carbon dioxide or water

spray.

Hazardous decomposition

products:

In a fire, irritant and toxic fumes containing oxides of carbon,

nitrogen, phosphorus and sulphur and other toxic substances may

be generated.

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: 2Z

Section 6: Accidental release measures

Personal precautions: Wear appropriate protective clothing (refer to Section 8) during

clean-up. Exclude all bystanders from the vicinity.

Environmental precautions: Prevent product entering drains or waterways by activating

emergency shut-off valves or using bunding. Inform appropriate authorities immediately if spill enters sewers or waterways.

Prevent chemical contaminating soil.

Procedure for clean up: Contain spill and absorb with sand or inert absorbent material

(e.g. vermiculite). Clean up spill immediately. Collect in sealed, labelled, open-top containers for disposal at an approved facility.

Section 7: Handling and storage

Safe handling: Read label before use. Avoid contact with eyes and skin. Avoid

inhalation of spray mist. When mixing or applying, wear protective clothing (refer to Section 8). Wash hands and exposed skin after

use. Wash protective clothing after use.

Safe storage: Keep out of reach of children. Store in a place accessible by

authorised persons only. Keep containers tightly closed in a cool, well-ventilated place. Keep away from strong oxidizing agents.

The storage temperature should not exceed 30°C.

Patriot



Section 8: Exposure controls/personal protection

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

> Propylene glycol 107-98-2 100ppm 150ppm monomethyl ether $(369mq/m^3)$ (553 mg/m^3)

Engineering controls: Control process conditions to avoid contact. Use only in well-

ventilated areas. If necessary, use local exhaust ventilation to

keep airborne concentration below the exposure limits.

Hand protection: Elbow length, chemical resistant gloves.

Eye protection: 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.

Section 9: Physical and chemical properties

Appearance: Blue liquid. (a)

(b) Odour: Odourless. (c) Odour threshold: Not available.

pH: 5.2-6.2 in 5% aqueous solution. (d)

Melting point/freezing Not applicable. (e)

point:

Initial boiling point and 96°C (f)

boiling range:

>61°C <93°C Flash point: (g) Not available.

Flammability (solid, (h)

gas):

(i) Upper/lower Not available.

> flammability or explosive limits:

(j) Vapour pressure: Low.

Vapour density: Not available. (k)

(l) Relative density: 1.11

(m) Solubility: Soluble in water. Partition coefficient: Not available. (n)

n-ocatanol/water:

440°C (o) Auto-ignition

temperature:

Not available. (p) Decomposition

temperature:

Not available. (q) Kinematic viscosity:

Section 10: Stability and reactivity

Patriot



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

conditions. If you have any doubts, contact the supplier for advice

on shelf-life properties.

Conditions to avoid: Avoid heat, flames, sunlight.

Incompatible materials: Strong acids, strong bases, strong oxidising agents. Ammonia

may be evolved in the presence of alkalis.

Hazardous decomposition

products:

Ammonia. In a fire, oxides of carbon, nitrogen, phosphorus and

sulphur may be emitted.

Section 11: Toxicological information

Toxicity classifications determined by assessment of the

components in the formulated mixture.

(a) Acute toxicity: Classified as harmful if ingested, in contact with skin or inhaled.

(b) Aspiration hazard: Not classified.
(c) Respiratory irritation: Not classified.
(d) Skin corrosion / irritation: Mild skin irritant.
(e) Serious eye damage / Eye irritant.

irritation:

(f) Respiratory or skin

sensitisation:

Not classified.

(g) Germ cell mutagenicity: Not classified.(h) Carcinogenicity: Not classified.

(i) Reproductive toxicity: Classified as a suspected reproductive or developmental toxicant.

(j) Specific organ toxicity: Causes damage to human target organs (kidney) or systems.

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

Toxicological information for

product:

Oral LD₅₀ (female rat): 1910 mg/kg bw Oral LD₅₀ (male rat): 2170 mg/kg bw

Dermal LD_{50} (female rat): 1380 mg/kg bw Dermal LD_{50} (male rat): 1400 mg/kg bw Inhalation LC_{50} (female rat): 4.31mg/L (4hr) Inhalation LC_{50} (male rat): 3.22mg/L (4hr)

Section 12: Ecological information

Ecotoxicological classifications determined by assessment of the

active ingredient.

(a) Aquatic ecotoxicity: Toxic to aquatic life with long lasting effects.

(b) Soil ecotoxicity(c) Terrestrial vertebrate(d) Very toxic in the soil environment. Harmful to terrestrial vertebrates.

ecotoxicity:

(d) Terrestrial invertebrate

ecotoxicity:

Not classified.

Patriot



(e) Persistence and Glufosinate-ammonium is very soluble in water and is

degradability: hydrolytically and photolytically stable. This product is

considered to not be readily biodegradable.

(f) Potential to be Glufosinate-ammonium does not accumulate in the fatty tissues of

bioaccumulative: fish or other animals.

(g) Mobility in soil. Product is soluble in water.

Ecotoxicological information Sheepshead minnow LC₅₀ (96 hr) 13.1 mg/L

for glufosinate-ammonium: Daphnia magna EC₅₀ (48 hr): 15 mg/L Lemna gibba EC₅₀ (72 hr) 1.5 mg/L

Japanese quail LC₅₀: >5000mg/kg (8-day dietary)

Section 13: Disposal considerations

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

through Agrecovery chemical disposal or similar approved service. Do not allow material to contaminate ground water

system or surface water.

Container disposal: Triple rinse container and add residue to spray tank. Recycle

clean, empty container through Agrecovery if possible or 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

UN number: Not applicable. UN proper shipping name: Not applicable.

UN class: Not applicable.

Packing group: III
HAZCHEM: 2Z
Marine pollutant: No
Special precautions: -

Section 15: Regulatory information

HSNO: Approved substance under the HSNO Act 1996.

Substance approval number: HSR000152; Soluble concentrate containing 200 g/litre

glufosinate-ammonium.

Tolerable exposure limit / environmental exposure limit:

None set.

HSNO controls: See <u>www.epa.govt.nz</u>

Additional controls: The substance must not be applied onto or into water.

Additional information: 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.

Patriot



Registration number: P9264

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

Section 16: Other information

Date of issue: 14/03/2019

Reason for reissue: Update of SDS format and product information.

Replaces: SDS issued August 2015.

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

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.