



Safety Data Sheet
according to WHS Regulations

ISSUED BY 4FARMERS
Issue Date: 25/08/2012
Review Date: 18/08/2024
SDS: 53852

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

4FARMERS GLYPHOSATE 360 HERBICIDE

PRODUCT USE

Agricultural Herbicide

Manufacturer/Supplier

Company: 4Farmers Australia Pty Ltd
Address: 35 MCDOWELL ST.
WELSHPOOL, 6106 , AUSTRALIA
Telephone: 08- 9356 3445

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria. Not Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition), IATA and IMDG/IMSBC. Not subject to the ADG Code when transported in Australia by Road or Rail in packagings that do not incorporate a receptacle exceeding 500(L) or less; or IBCs (refer to SP AU01). However if transported by Air or Sea this provision does not apply.



Skin irrit 2 H315 Causes skin irritation
Eye irrit 2A H319 Causes serious eye irritation
Signal word: Warning

Hazard Statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary Statements

P280 Wear protective gloves/protective clothing/eye protection/face protection
P264 Wash hands thoroughly after handling.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of water.
P362+P364 Take off contaminated clothing and wash it before reuse.



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Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	g/kg
glyphosate isopropylamine salt	38641-94-0	360g/lt
Other ingredients -non-hazardous	N/A	balance

Section 4 - FIRST AID MEASURES

SWALLOWED

IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.
- For advice, contact a Poisons Information Centre or a doctor.

EYE

If this product comes in contact with the eyes:
- Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

SKIN

If skin or hair contact occurs:
- Quickly but gently, wipe material off skin with a dry, clean cloth.
- Immediately remove all contaminated clothing, including footwear.

INHALED

If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema.
- Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs).

NOTES TO PHYSICIAN

Treat symptomatically.

For acute or short-term repeated exposures to highly alkaline materials:

- Respiratory stress is uncommon but present occasionally because of soft tissue edema.
- Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary.

Treatment for significant glyphosate exposures

The presence of a phosphono-group in the structure has been incorrectly interpreted as an organophosphate which suggests cholinesterase inhibition in poisoning cases. Retrospective studies on glyphosate poisoning have shown atropine and pralidoxime been mistakenly administered to counteract such poisoning cases.

Section 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, fog or foam. Specific Hazards Arising from the

Chemical: Hazardous combustion products include oxides of carbon, nitrogen and phosphorous. This product or spray solutions react with galvanised steel or unlined steel (except stainless steel)



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containers and tanks, to produce hydrogen gas which may form a highly flammable or explosive gas mixtures. Product is not flammable. Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers. Prevent run-off from fire fighting entering drains or water courses. HAZCHEM Code: •3Z Special Protective Equipment and Precautions for Fire Fighters: When fighting a major fire wear self-contained breathing apparatus and protective equipment. **PERSONAL**

PROTECTION

Glasses:

Chemical goggles.

Gloves:

PVC chemical resistant type.

Respirator:

Type AKNO-P Filter of sufficient capacity

Other information: STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions: In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up: Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. If spill is too large or absorbent material is not available create a dyke to stop the spill from spreading. Collect the spilled material and place into a suitable container for disposal. Wash area after spills.

Section 7 - HANDLING AND STORAGE

Handling

Do not spray in high winds. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Provide adequate ventilation.

Do NOT mix, store or apply the material/ formulations of the glyphosate, its salts or compounds in galvanised steel or unlined steel (except stainless steel), containers or spray tanks. The material/ formulations of the material/ spray solutions react with such containers and tanks to produce hydrogen gas which forms gas mixtures which may flash or explode when exposed to open flame, spark, welder torch, lighted cigarette or other sources

Storage

Note: Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Do not tamper with the Micro Matic valve or the security seal. Do not contaminate the Envirodrum with water or any other foreign matter. After each use of the product, please ensure the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly.



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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards

No exposure standards have been set for this product or the active ingredients.

Engineering Controls

Handle in well ventilated areas, generally natural ventilation is adequate.

Respiratory Protection

Do not inhale spray mist.

Personal Protective Equipment

When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles. Sensitive workers should use protective clothing.

Hygiene Measures

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

Requirements Concerning Special Training

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Description & colour: Blue Liquid

Odour: Weak characteristic odour

Boiling Point: N/A

Melting Point: N/A

Volatiles: No specific data.

Vapour Pressure: N/A,

Vapour Density: N/A

Specific Gravity: 1.180

Water Solubility: Soluble in water

pH: 4 to 6

Odour Threshold: No data.

Evaporation Rate: No data.

Coeff Oil/water Distribution: no data

Autoignition temp: N/A

Flash point : Not flammable or Combustible

Flammability : Not flammable or Combustible



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Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

Chemical Stability	Stable under normal conditions of use. May be unstable in conditions below 5 Deg C.
Incompatible Materials	Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime. Such contact may release isopropylamine vapour with a strong fish like odour, which is an irritant to eyes. Isopropylamine is moderately toxic, LD50 (oral, rat) is 820 mg/kg and a TLV of 5 ppm (TWA) has been set.
Hazardous Decomposition Products	Oxides of carbon and nitrogen and hydrogen chloride.
Hazardous Polymerization Conditions to Avoid	Will not occur. Excessive heat.

Section 11 - TOXICOLOGICAL INFORMATION

Toxicology Information

Inhalation: When applying the product as a spray avoid breathing in spray mist. May cause irritation to mucous membranes and respiratory tract.

Ingestion: The concentrate is of low toxicity if swallowed. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. Possible symptoms of exposure include: nausea, vomiting and gastrointestinal discomfort and diarrhoea. Ingestion of a large quantity of the undiluted product may result in hypotension and pulmonary oedema

Skin: Prolonged contact with the concentrate may cause irritation..

Eye: The concentrate will cause severe irritation of the eyes. Prolonged contact with the concentrate may cause damage to the eye.

Chronic Effects: No information available, no chronic effects

Carcinogenicity: The weight of the evidence is that glyphosate is not carcinogenic.

Acute Toxicity - Oral LD50 (rat) >5000 mg/L for similar formulations

Acute Toxicity – Dermal LD50 (rabbit) >5000 mg/kg

Acute Toxicity – Inhalation LC50 (rat) (4hr) > 1.3 mg/l,

Skin Irritation: Slight skin irritant.



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Skin Sensitisation: Product is not a skin sensitiser.

Other Information: The Australian Acceptable Daily Intake (ADI) for glyphosate for a human is 0.3mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 30 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: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', December 2008).

Section 12 - ECOLOGICAL INFORMATION

Persistence /Degradability: Half-life in soil is typically 47 days. Loss from soil is principally by microbial degradation.

Mobility: Low mobility in normal conditions.

Effects on the Environment: Glyphosate is a non-selective contact herbicide. Spray drift can cause

Environ. Protection: Spray drift can cause damage, read the label for more information.

Acute Toxicity – Fish: Not toxic to fish. LC50 (96 hr) for (rainbow trout) is ~8.2 – 26 mg/l.

Acute Toxicity - Birds Not toxic to birds. LD50 for (mallard ducks) is >2000 mg/kg

Other Organisms Bees: Not toxic to bees. LD50 > 100 µg/bee.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal methods and containers Instructions concerning the disposal of this product and its containers are given on the product label. Dispose according to applicable local and state government regulations.

Special precautions for landfill or incineration Please consult your state Land Waste Management Authority for more information

Section 14 - TRANSPORTATION INFORMATION

Storage and Transport: Considered non dangerous for road and rail transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail

Road and Rail

UN Number

UN3082



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Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate (ISO))
Dangerous Goods Class	9
Hazchem Code	*3Z
Packing Group	III

Special Precautions Not applicable

Packagings & IBCs - Packing Instruction: P001, IBC03, LP01

Packagings & IBCs - Special Packing Provisions: PP1

Section 15 - REGULATORY INFORMATION

Glyphosate is listed in the Australian Inventory of Chemical Substances (AICS).

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule: Poisons

Schedule: 5 Australian Pesticides and Veterinary Medicines Authority: This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA number:53852

Section 16 - OTHER INFORMATION

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

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit TWA: Time Weighted Average

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

This SDS summarises our best knowledge of the health and safety hazard information on the product, and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact 4Farmers Australia Pty Ltd, or in the event of an emergency, 000. Our responsibility for products sold is subject to our standard terms and conditions, as per our Label copy of which is sent to our customers and is also available on request

This is the end of the SDS.