

TRIOX Pty Ltd

Safety Data Sheet

Pestar 450 Glyphosate Weedkiller

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **Pestar 450 Glyphosate Weedkiller**
Aqueous formulation for control of weeds.

Synonyms: Glyphosate 450.

Use: For control of weeds.

Supplier: Triox Pty Ltd
ABN: 72 068 066 446
Street Address: 6/707 Mt Alexander Rd
Moonee Ponds VIC 3039

Telephone: + 613 9372-9977
Facsimile: + 613 9372-9988

Emergency telephone number: (03) 9372 9977 Monday to Friday 9am to 5pm
Poisons Information Centre: 13 1126 Australia

2. HAZARDS IDENTIFICATION

Not classified as hazardous according to criteria of SWA.
Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.
This product is classified as not dangerous to the environment.

Risk Phases: n/a

Safety Phases: S23, S36, S24/25. Do not breath vapours or spray mist. Wear suitable protective clothing. Avoid contact with skin and eyes.

SUMP Classification: n/a

UN Number: None allocated.

GHS Signal Word: NONE. Not hazardous

PREVENTION:

- P102: Keep out of reach of children.
- P262: Do not get in eyes, on skin, or on clothing.
- P273: Avoid release to the environment.
- P281: Use personal protective equipment as required.

RESPONSE:

- P352: Wash with plenty of soap and water.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
- P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE:

- P410: Protect from sunlight.
- P402+P404: Store in a dry place. Store in a closed container.
- P403+P235: Store in a well ventilated place. Keep cool.

DISPOSAL:

P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

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Emergency Overview:

Physical Description & Colour: Amber coloured liquid.

Odour: Mild odour

Major Health Hazards: Glyphosate weedkiller is harmful to non-harmful via the oral route. Via the dermal route, it is not harmful. No health risk factors have been found for this product.

3. COMPOSITION INFORMATION

Recommended use: For the control of insects on plants.

Appearance: Amber liquid.

CHEMICAL	ENTITY CAS NO.	PROPORTION
Glyphosate isopropylamine salt	38641-94-0	450 g/L
Surfactant	-	10-20%
Water	7732-18-5	balance
		<hr/> 100%

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

4. FIRST AID MEASURES

Poison Information Centres in each State capital city can provide additional assistance (13 1126).

Ingestion: Rinse mouth with water. Give plenty of water to drink. If vomiting occurs give further water. Seek medical advice.

Eye contact: Irrigate with copious quantities of water for 5 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Skin contact: Immediately wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. Seek medical advice.

Inhalation: Remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: Non combustible liquid.

Fire fighting further advice: Non combustible liquid. However after evaporation of water may liberate toxic fumes. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

Suitable extinguishing media: Use extinguishing media suited to burning materials.

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6. ACCIDENTAL RELEASE MEASURES

This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern.

Wear protective equipment to prevent skin and eye contamination. Contain spill with inert absorbent (like vermiculite or sand). Collect and seal in properly labeled drums for disposal. Wash area down with detergent and excess water. If contamination of crops or waterways has occurred advise emergency services or State Department of Agriculture.

7. HANDLING AND STORAGE

Storage: Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Store in a locked room or place away from children, animals, food and feedstuffs. Keep container closed at all times – check regularly for leaks.

This material must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits

No values assigned for TWA and STEL for this specific material, by SWA.

TWA – the Time Weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as practicable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentration of chemicals. They are not a measure of relative toxicity.

If the direction for use on the product label are followed, exposure of individuals using the product will not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Engineering measures: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES (S).

Avoid skin and eye contact and inhalation of mist. Wear overalls, safety glasses and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of mist exists wear combined organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Light yellow Tinge Liquid

Solubility:	Soluble in water.	Specific Gravity (20 °C):	1.1-1.20
Relative Vapour Density (air=1):	N Av		
Vapour Pressure (20 °C):	N Av		

Flash Point: N App

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Flammability Limits (%) :	N App
Autoignition Temperature (°C) :	N App
% Volatile by Volume :	N Av
Melting Point/Range (°C) :	0 approx
Boiling Point/Range (°C) :	100 approx
PH (1% aq solution) :	4.6
Viscosity :	N Av
Evaporation Rate (n-Butyl acetate=1) :	N Av

(Typical values only - consult specification sheet)
N Av = Not available N App = Not applicable

10. STABILITY AND REACTIVITY

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

Fire Decomposition: Only small quantities of decomposition products are expected from this product at fire temperatures and only after heating to dryness.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin may result in irritation.

Eye contact: May be an eye irritant.

Ingestion: No adverse effects expected however large amounts may cause nausea and vomiting.

Long Term Effects:

No information available for product.

Acute toxicity / Chronic toxicity

Oral LD50 (rat):	25,000 mg/kg
Dermal LD50 (rabbit):	>5,000 mg/kg
Inhalation LC50 (rat):	2.6 mg/L (4 hr)
Eye Irritation (rabbit):	Essentially non-irritating
Skin Irritation (rabbit):	Slightly to moderately irritating

The active ingredient has been in use for many years and there are no reports of health effects in workers due to long term exposure to this ingredient. Animal studies of the active ingredient have indicated no cancer, mutagenic, teratogenic or neurotoxic effects.

12. ECOLOGICAL INFORMATION

No data available for the product. However, for the constituent Glyphosate,

Avian Toxicity:

Oral LD50 (Bobwhite Quail):	>3850 mg/kg
LC50 (Quail and Ducks):	>4640 mg/kg (8 day dietary)

Aquatic Toxicity:

96h LC50 (trout):	86 mg/L
96h LC50 (Bluegill sunfish):	120 mg/L
48h EC50 (Daphnia):	>780 mg/L

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Bee Toxicity:

LD50 (contact): >0.1 mg/bee

LD50 (oral): >0.1 mg/bee

Earthworms Toxicity:

LC50 Earthworms: >1,250 mg/kg

BCF (Bioaccumulation factor):

Tests in a variety of mammalian, avian and aquatic species have shown that glyphosate does not bioaccumulate.

Degradation:

A primary degradation rate of glyphosate was determined in water after 30 days: 87.8%. The surfactants is deemed to be readily biodegradable after 28 days: 75.4%.

For surfactant only:

Oral LD50 (rat): >2,500 mg/kg

Dermal LD50 (rabbit): >200 mg/kg

13. DISPOSAL CONSIDERATIONS

Dispose of small quantities and empty containers by wrapping in paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

14. TRANSPORT INFORMATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

15. REGULATORY INFORMATION

Not classified as hazardous according to criteria of SWA.

Poisons Schedule (Aust)/Toxic Substance (NZ): S5

16. OTHER INFORMATION

REFERENCES:

1. Supplier Product Safety Data.
2. In "The Pesticide Manual" Ed. Cd Tomlin. British Crop Protection Council, 1997.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Triox cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.