

TRIOX Pty Ltd

Material Safety Data Sheet – Pestmaster Glyphosate Weedkiller

Non hazardous according to criteria of NOHSC Australia.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: **PESTMASTER** Aqueous formulation containing **GLYPHOSATE**
(present as the isopropylamine salt)

Synonyms: Glyphosate IPA Solution

Use: Broad spectrum herbicide.

Supplier: Triox Pty Ltd

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2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL	ENTITY CAS NO.	PROPORTION
Glyphosate isopropylamine salt	38641-94-0	450 g/L
Surfactant	-	10-20%
Water	7732-18-5	balance
OR		
Glyphosate isopropylamine salt	38641-94-0	360 g/L
Surfactant	-	<10%
Water	7732-18-5	balance
OR		
Glyphosate isopropylamine salt	38641-94-0	7.2 g/L
Surfactant	-	<10%
Water	7732-18-5	balance
		100%

3. HAZARDS IDENTIFICATION

Based on available information, this material is not classified as hazardous according to criteria of NOHSC Australia.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Poisons Schedule (Aust): S5

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This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126; New Zealand 03 474 7000).

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.

Skin contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation occurs seek medical advice.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

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

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: Non-combustible material.

Fire fighting further advice: Not combustible, however following evaporation of aqueous component residual material can burn if ignited. On burning will emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Suitable extinguishing media: water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Wash area down with detergent and excess water.

7. HANDLING AND STORAGE

Handling: Avoid eye contact and repeated or prolonged skin contact.

Storage: Store in a cool, dry, well ventilated place and out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertiliser. Keep containers closed when not in use - check regularly for leaks.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC Australia).

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 (Short).

Avoid eye contact and repeated or prolonged skin contact. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: (450g/L Blue Tinge Liquid) (360g/L Light yellow Tinge Liquid)
(7.2g/L Pink Tinge Liquid)

Solubility:	Soluble in water.
Specific Gravity (20 °C):	1.0-1.17
Relative Vapour Density (air=1):	N Av
Vapour Pressure (20 °C):	N Av
Flash Point:	N App
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

Stability: Stable for at least 5 years under normal conditions of warehouse storage. Hazardous polymerisation does not occur. Avoid contamination of fertilisers, spray materials, seed, feed, foodstuffs or water by storage or disposal.

11. TOXICOLOGICAL INFORMATION

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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 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.

Data from studies with a formulation comprised of 62% isopropylamine salt of glyphosate indicate the following:

- In repeat dosing studies (6 month), dogs fed glyphosate exhibited slight body weight changes.
- Repeated skin exposures (3 week), skin irritation was the primary effect in rabbits.
- Repeated exposures (90 days) to glyphosate in their feed, decreased weight gains were noted at the highest test level in mice, while no treatment-related effects occurred in rats.
- Repeated skin exposure (3 weeks) to glyphosate, slight skin irritation was the primary effect observed in rabbits, No skin allergy was observed in guinea pigs following repeated skin exposure.

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

Bee Toxicity:

LD50 (contact):	>0.1 mg/bee
LD50 (oral):	>0.1 mg/bee

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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

Refer to State/Territory Land Waste Management Authority. Normally suitable for disposal at approved land waste site.

WASTE DISPOSAL:

If wastes cannot be used according to label instructions or chemically reprocessed, dispose of in a landfill approved for pesticides disposal or bury under 500mm of soil in a non-crop, non-pasture area away from water resources or homes. Dispose of in accordance with all pesticide local and state laws.

CONTAINERS:

Emptied containers retain residue. Triple rinse container, replace cap, then offer for recycling or reconditioning. Otherwise, dispose of in an approved landfill or bury under at least 500mm of soil in a non-crop, non-pasture area away from water sources or homes.

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Based on available information, this material is not classified as hazardous according to criteria of NOHSC Australia.

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

16. OTHER INFORMATION

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS 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 Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS 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.