

SAFETY DATA SHEET

Product Name: Kiwicare Weed Weapon Glyphosate 700 SG

Issue Date: 15/10/2019

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1. PRODUCT AND COMPANY INFORMATION

Product Name:	Kiwicare Weed Weapon Glyphosate 700 SG
Relevant identified uses:	Herbicide
Molecular Formula:	Mixture
Supplier:	Kiwicare Corporation Limited
Street Address:	225 Maces Road, Bromley, Christchurch, 8062 New Zealand
Postal Address:	P.O Box 15050, Aranui, Christchurch, 8643 New Zealand
Telephone	+64 3 389 0778
Email:	info@kiwicare.co.nz
Website:	www.kiwicare.co.nz
Emergency Contact Numbers:	0800 764 766 (0800 POISON)
National Poisons Centre:	0800 764 766 (0800 POISON)

2. HAZARDS IDENTIFICATION

6.1E (oral)	Not applicable for the UN RTDG Model Regulations	No pictogram	Warning	H303	P102 ^b P103*	P101 ^b P312	No storage statements	P501
6.4A ^j	Not applicable for the UN RTDG Model Regulations		Warning	H319	P103 ^b P264 P280	P305 + P351 + P338 P337 + P313	No storage statements	P501
9.1C	Not applicable for the UN RTDG Model Regulations	No Pictogram	No Signal Word	H412	P103 ^b P273	No response statements	No storage statements	P501

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Dangerous Goods:	Not Dangerous Goods
Packaging Group:	None
Hazardous Substance (HSNO) Codes:	6.1E (May be harmful if swallowed) 6.4A (Eye irritant) 9.1C (Harmful in the aquatic environment)
Hazard Statement:	H303: May be harmful if swallowed. H319: Causes serious eye irritation. H412: Harmful to aquatic life with long lasting effects.
Precautionary Statements:	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read label before use. P264: Wash hands thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P337+P313: If eye irritation persists: Get medical advice/attention. P305+351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501: Appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notices 2017. This may also include any method of disposal that must be avoided.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use:	Herbicidal granule
Appearance:	Tan / white granule

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Ingredients

Ingredients	CAS #	Content %
Glyphosate mono-ammonium	40465-66-5	77.7 %
Other ingredients	NA (Mixture)	12.3 %
Water	7732-18-5	10 %

4. FIRST AID MEASURES

General information:	In case of accident, or if you feel unwell, seek medical advice (show the label where possible).
Ingestion:	Immediately offer water to drink. Do NOT induce vomiting. Seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.
Eye Contact:	May cause eye irritancy. Rinse opened eye for 15 minutes under running water. If irritation persists seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.
Skin Contact:	Rinse skin with copious amounts of water and wash with soap and water. If you feel unwell seek immediate medical advice.
Inhalation:	If symptoms develop move the exposed person to fresh air. If breathing problems develop, seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.
Advice for Medical Doctors:	This product is not an inhibitor of cholinesterase. Antidote: please treat with atropine. Use of oximes is not indicated.

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5. FIRE FIGHTING MEASURES

Specific Hazards:	None. Minimize the use of water to prevent environmental contamination.
Suitable Extinguishing Media:	Appropriate fire extinguishers are water, dry chemical, CO ₂ , Powder or Alcohol resistant foam. Use extinguishing media appropriate to the surrounding conditions.
Fire Fighting Advice:	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Equipment need to be thoroughly cleaned after use.

Hazardous products of combustion

Carbon monoxide (CO), phosphorus oxides (P_xO_y), nitrogen oxides (NO_x), ammonia (NH₃)

Flash point

Not applicable

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent leakage or spillage if safe to do so.
Minor Spills (Up to 20 kg):	Small quantities – Low environmental hazard.
Major Spills (more than 20 kg):	Large quantities – Minimise spread. Keep out of water to prevent environmental contamination. Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.

7. HANDLING AND STORAGE

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Good industrial practice in housekeeping and personal hygiene should be followed.

Handling

Avoid contact with eyes.

When using, do not eat, drink or smoke.

Wash hands thoroughly after handling or contact.

Thoroughly clean equipment after use.

Do not contaminate drains, sewers and waterways when disposing of equipment rinse water.

Emptied containers retain vapor and product residue.

Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

Storage

Compatible materials for storage: stainless steel, aluminum fiberglass, plastic, glass lining

Incompatible materials for storage: galvanized steel, unlined mild steel, see section 10.

Keep out of reach of children.

Keep away from food, drink and animal feed.

Keep only in the origin container.

Keep container dry.

Keep container off wet floors.

Minimum shelf life: 2 years.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne exposure limits

Ammonium salt of glyphosate

No specific occupational exposure limits has been established

Engineering controls

No special requirement when used as recommended.

Eye protection

If there is significant potential for contact.

Wear dust goggles.

Skin protection

If repeated or prolonged contact:

Wear chemical resistant gloves.

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Respiratory protection

No special requirement when use as recommended.

When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Tan / white granule; mild odour
Solubility:	Soluble in water
Specific Gravity:	No data
Flash Point:	Not applicable
pH Value:	4.2 – 5.8 (15g/L concentration level)

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

Stability & Chemical reactivity:	Stable under normal conditions of use.
Incompatibility or conditions to be avoid:	Reacts with galvanized steel or unlined mild steel to produce hydrogen, a highly explosive gas that could explode.
Corrosive Properties:	NOT corrosive to skin or eyes.
Hazardous Decomposition:	Hazardous products of combustion; see section 5 for details.

11. TOXICOLOGICAL INFORMATION

The relevant hazard classes on ingredients:

Glyphosate mono-ammonium (40465-66-5):	HSNO 6.1E; 9.1B or GHS H303; H411
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11. TOXICOLOGICAL INFORMATION

For the substance (final product):

This section is intended for use by toxicologist and other health professionals.
Data obtained on product and components are summarized below.

Acute oral toxicity

Rat, female, LD50: 3,794-mg/kg body weight
Slightly toxic

Acute dermal toxicity

Rat, LD50 (limit test) : > 5,000 mg/kg body weight
Practically non-toxic
No mortality

Acute inhalation toxicity

Rat LD50(limit test) : 4 hours, aerosol: > 2.6 mg/L
Practically non-toxic

Skin irritation

Rabbit
Days to heal: 7
Slight irritation.

Eye irritation

Rabbit
Days to heal: 7
Slight irritation.

Skin sensitization

Guinea pig
Positive incidence: 0%

N- (phosphonomethyl) glycine; glyphosate

Mutagenicity

In vitro and in vivo mutagenicity tests:
Not mutagenic.

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Repeated dose toxicity

Rabbit, dermal, 21 days:

NOAEL toxicity: > 5,000 mg/kg body weight/day

Target organs/systems: none

Other effects: none

Rat, oral, 3 months:

NOAEL, toxicity: > 20,000 mg/kg diet

Target organs/systems: none

Other effects: none

Carcinogenicity

Mouse, oral, 24 months:

NOEL tumor: > 30,000 mg/kg diet

NOAEL toxicity: ~5,000 mg/kg diet

Tumors: none

Target organs/systems: liver

Other effects: decrease of body weight gain, histopathologic effects

Rat, oral, 24 months:

NOEL tumor: > 20,000 mg/kg diet

NOAEL toxicity: ~8,000 mg/kg diet

Tumors: none

Target organs/systems: eyes

Other effects: decrease of body weight gain, histopathologic effects

Toxicity to reproduction/fertility

Rat, oral, 3 generations:

NOAEL toxicity: > 30 mg/kg body weight

NOAEL reproduction: > 30 mg/kg body weight

Target organs/systems in parents: none

Other effects in parents: none

Target organs/systems in pups: none

Other effects in pups: none

Developmental toxicity/teratogenicity

Rat, oral, 6-19 days of gestation:

NOAEL toxicity: > 100 mg/kg body weight

NOAEL development: 1,000-mg/kg body weight

Other effects in mother animal: decrease of body weight gain, decrease of survival

Developmental effects: weight loss, post-implantation loss, delayed ossification

Effects on offspring only observed with maternal toxicity.

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Rabbit, oral, 6-27 days gestation:

NOAEL toxicity: > 175 mg/kg body weight

NOAEL development: 175-mg/kg body weight

Target organs/systems in other animal: none

Other effects in mother animal: decrease of survival

Developmental effects: none

12. ECOTOXICITY INFORMATION

This section is intended for use by ecotoxicologists and other environmental specialists.

Data obtained on similar products and on components are summarized below.

Aquatic toxicity, fish

Rainbow trout (*Oncorhynchus mykiss*):

Acute toxicity, 96 hours, semi-static, LC50: 3 mg/L

Moderately toxic.

Aquatic toxicity, invertebrates

Water flea (*Daphnia magna*):

Acute toxicity, 48 hours, static, EC50: 29.1 mg/L

Slightly toxic.

Aquatic toxicity, algae/aquatic plants

Green algae (*Selenastrum capricornutum*):

Acute toxicity, 72 hours, static, EC50 (growth rate): 9.51 mg/L

Moderately toxic.

Arthropod toxicity

Honeybee (*Apis mellifera*):

Oral, 48 hours, LD50: > 177 ug/bee

Practically non-toxic.

Honeybee (*Apis mellifera*):

Contact, 48 hours: > 152 ug/bee

Soil organism toxicity, microorganisms

Nitrogen and carbon transformation test:

33.3 kg/ha, 28 days: Less than 25% effect on nitrogen or carbon transformation process in soil.

Similar formulation

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Avian toxicity

Bobwhite quail (*Colinus virginianus*):

Acute oral toxicity, LD50 1,651 mg/kg body weight

Slightly toxic.

N- (phosphonomethyl) glycine; glyphosate

Bioaccumulation

Bluegill sunfish (*Lepomis macrochirus*):

Whole fish: BCF: < 1

No significant bioaccumulation is expected.

Dissipation

Soil, field:

Half life: 2-174 days

Koc: 884-60,000 L/kg

Absorbs strongly to soil

Water, aerobic:

Half life: < 7 days

13. DISPOSAL CONSIDERATIONS

Product

Keep out of drains, sewers, ditches, and waterways

Recycle if appropriate facilities/equipments available

Burn in special, controlled high temperature incinerator

Follow all local/regional/national/international regulations

Container

See the individual container label for disposal information

Emptied packages retain product residue and dust

Observe all labeled safeguards until container is cleaned, reconditioned or destroyed

Empty packaging completely

Store for collection by approved waste disposal service

Ensure packaging cannot be reused

DO NOT reuse containers

Recycle if appropriate facilities/equipments available

Bury in approved landfill

Follow all local/regional/national/international regulations

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14. TRANSPORT INFORMATION

Road, Rail; Marine and Air

UN Number:	None
Dangerous Goods Class:	No restriction for transport. (ADR/RID; IMDG; IATA/ICAO)
Hazchem Code:	None
Packaging Group:	None
Proper Shipping Name:	None
Segregation:	None

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number:	HSR101245
HSNO Classifications:	6.1E, 6.4A, and 9.1C.
HSNO Controls:	Refer to HSR101245
HSNO Approved codes of Practice:	Refer to HSR101245

16. OTHER INFORMATION

SDS date of preparation:	23 / 07 / 2019
SDS date of revision:	23 / 07 / 2024
Emergency Contact	24 Hours
Work Hours	National Poisons Centre
Kiwicare Corporation	PO Box 913
225 Maces Road	Dunedin
PO Box 15050	Tel: 0800 764 766 (POISON)
Christchurch	
Tel: (03) 389 0778	
Fax: (03) 389 0669	

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16. OTHER INFORMATION

All Safety Data Sheets are subject to review and should not be left longer than five years before and update is obtained.

For further information visit the Kiwicare web site, www.kiwicare.co.nz, or contact the supplier of the starting material.

The information in this document should be made available to all who may handle the product. For proper and safe use of this product, please refer to the product label.

This information is based on data believed by Kiwicare Corporation Limited to be accurate at the time of writing. It is given in good faith but no warranty expressed or implied is made as to its accuracy, completeness or otherwise. Every person dealing with the materials referred herein does so at their own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Attention is drawn to the application and safety instructions set out on the label. This sheet is not a substitute for safety, hazard or application instructions set out on the label. As Kiwicare Corporation Limited and their distributors have no control over storage or use of this product no liability for accident or damage will be accepted.

Abbreviations:

ADR: European agreement concerning the international carriage of dangerous goods by Road.

CLP: Classification, Labelling and Packaging

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

GHS: Global Harmonized System

EU: European Union

EC: European Commission

TLV: Threshold Limit Value

TWA: Time Weighted Average

STEL: Short-Term Exposure Limit

H Phrase: Hazard phrase

P Phrase: Precautionary phrase

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