

KNOCK OUT EXTRA

Section 1: Identification

Product name:	Knock Out Extra
Other names:	540 g/litre glyphosate as the potassium salt as a soluble concentrate.
Recommended use:	A non-residual, non-selective herbicide for weed control prior to planting crops and pasture, prior to harvesting some crops and for general weed control in horticulture, agriculture, and forestry.
Manufacturer/Importer details:	AgStar New Zealand Pty Ltd 4 Putakitaki Street, Lincoln, Christchurch 7608
Distributor:	Farmlands Co-operative Society Limited 535 Wairakei Road, Burnside, Christchurch 8053 TEL 0800 200 600
24 hour emergency contact:	0800 CHEMCALL (0800 243622)
National Poisons Centre:	0800 POISON (0800 764766)

Section 2: Hazard identification

HSNO Approval:	Product is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996.
Hazardous classification:	HSR100587
Pictograms:	Hazardous to the aquatic environment (chronic) Category 2 
Signal word:	WARNING
Hazard statements:	H411 Toxic to aquatic life with long lasting effects
Prevention statements:	P102 Keep out of reach of children. P103 Read label before use. P264 Wash hands, arms and face thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves, protective clothing, eye and face protection.
Response statements:	P101 If medical advice is needed, have product container or label at hand. 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 advice/attention. P391 Collect spillage
Storage statements:	-
Disposal statement:	P501 Dispose of product and containers in accordance with local Regulations. See Section 13 for details.

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Additional Label Requirements:

Do not apply into or onto water.
Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

<i>Ingredient</i>	<i>CAS No.</i>	<i>Proportion %w/w</i>
Glyphosate*	1071-83-6	52.0 - 56.0
Other ingredients	Proprietary	To 100

* Equivalent to 540 g/L, in form as Glyphosate Potassium salt.

Section 4: First-aid measures

First aid measures:	If medical advice is needed, have product container or label at hand. For advice contact National Poisons Centre 0800 POISON [0800 764 766] or a doctor.
Ingestion:	Do NOT induce vomiting. Rinse mouth. Call a POISON CENTRE or doctor for advice 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 person feels unwell. If person is not breathing dial 111 for an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
Skin contact:	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs get medical attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical attention.
First aid facilities:	Provide eye baths and safety showers close to areas where product contact or splashing may occur.
Advice to doctor:	Treat symptomatically.

Section 5: Fire-fighting measures

Flammability:	Non-flammable.
Appropriate extinguishing media:	Water spray, foam, dry powder, carbon dioxide. Do NOT use high pressure water stream.
Hazardous decomposition products:	In a fire, may release toxic gases may be generated by thermal decomposition or combustion.
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:	3Z

Section 6: Accidental release measures

Personal precautions:	Wear protective clothing (overalls buttoned at wrist and neck),
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Environmental precautions:	chemical resistant gloves and boots and chemical goggles or face shield.										
Procedure for clean up:	Contain and collect spillage. Prevent chemical contaminating drains or watercourses by activating emergency shut-off valves or using bunding. Inform appropriate authorities immediately if spill enters waterways or sewers. Prevent chemical contaminating soil. Collect spill and absorb residues with inert absorbent material such as sand, soil or clay granules. Collect into an appropriate, labelled, waste container and dispose of at an approved facility. Prevent runoff entering waterways or contaminating the soil.										
Section 7: Handling and storage											
Safe handling:	Read label before use. Use only outdoors or in a well-ventilated area. Wear protective clothing; chemical goggles or a face shield, impervious gloves, overalls and boots when handling.. Wash splashes from skin immediately. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash contaminated clothing before re-use.										
Safe storage:	Keep out of reach of children. Store in accordance with the current version of NZS 8409 Management of Agrichemicals. Store in original container tightly closed in a secure, dry, cool area away from foodstuffs, fertilizers and seeds. Stores containing 1000 L or more are subject to signage, secondary containment and an emergency response plan.										
Section 8: Exposure controls/personal protection											
Occupational exposure limits:	<table><tr><td>Ingredient</td><td>CAS No.</td><td>WES-TWA</td><td>WES-STEL</td></tr><tr><td>Glyphosate</td><td>1071-83-6</td><td>-</td><td>-</td></tr></table>	Ingredient	CAS No.	WES-TWA	WES-STEL	Glyphosate	1071-83-6	-	-		
Ingredient	CAS No.	WES-TWA	WES-STEL								
Glyphosate	1071-83-6	-	-								
Biological limit value:	None set as of WorkSafe’s 14 th edition of WES and BEI values, published November 2023.										
Engineering controls:	Use only in well-ventilated areas. If necessary, use local exhaust ventilation to keep airborne concentration below the exposure limits.										
Respiratory protection:	Wear half or full mask fitted with vapour filter when mixing or applying spray.										
Hand protection:	Elbow length, chemical resistant gloves (e.g. PVC, rubber, neoprene or nitrile).										
Eye protection:	Goggles with side pieces or a 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.										
Personal Protection:	Further information on specific types of personal protective gear and related standards is available in Section 16.										

Section 9: Physical and chemical properties

(a)	Appearance:	Clear blue liquid
(b)	Odour:	Characteristic.
(c)	Odour threshold:	Not available.
(d)	pH:	4.5 – 6.5 (1% aqueous solution).
(e)	Melting point/freezing point:	Not available.
(f)	Initial boiling point and boiling range:	>100°C.
(g)	Flash point:	Not applicable
(h)	Flammability (solid, gas):	Not applicable.
(i)	Upper/lower flammability or explosive limits:	Not available.
(j)	Vapour pressure:	No data available.
(k)	Vapour density:	No data available.
(l)	Relative density:	No data available
(m)	Solubility:	Soluble in water.
(n)	Partition coefficient: n-octanol/water:	Not available.
(o)	Auto-ignition temperature:	Not available.
(p)	Decomposition temperature:	Not available.
(q)	Kinematic viscosity:	Not available.
(r)	Particle characteristics	Not applicable.

Section 10: Stability and reactivity

Stability of the substance:	Product is unlikely to react or decompose under normal conditions of storage and use.
Conditions to avoid:	Keep out of direct sunlight and protect from frost.
Incompatible materials:	Strong acids, alkalis or oxidising materials.
Hazardous decomposition products:	Oxides of carbon, oxides of nitrogen and other unspecified compounds.

Section 11: Toxicological information

	Toxicity classifications determined by assessment of the components in the formulated mixture.
a) Acute toxicity:	Not classified
b) Aspiration hazard:	Not classified.
c) Respiratory irritation:	Not classified.
d) Skin corrosion / irritation:	Not classified
e) Serious eye damage /	

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irritation: Not classified f) Respiratory or skin sensitisation: Not classified g) Germ cell mutagenicity: Not classified. h) Carcinogenicity: Not classified. i) Reproductive toxicity: Not classified. j) Specific organ toxicity: Not classified k) Narcotic effects: Not classified. l) Other adverse effects: No information. m) Toxicological information for Glyphosate:	Not classified Not classified Not classified. Not classified. Not classified. Not classified Not classified. No information. Acute oral LD₅₀ (rat): > 2000 mg/kg bodyweight Acute dermal LD₅₀ (rat): > 2000 mg/kg bodyweight Acute inhalation LC₅₀ 4 hr (rat): >5.0 mg/l
Section 12: Ecological information	
(a) Aquatic ecotoxicity: (b) Soil ecotoxicity (c) Terrestrial vertebrate ecotoxicity: (d) Terrestrial invertebrate ecotoxicity: (e) Persistence and degradability: (f) Potential to be bioaccumulative: (g) Mobility in soil. (h) Ecotoxicological information for active ingredient (Glyphosate):	Ecotoxicological classifications determined by assessment of the active ingredient. Toxic to aquatic life with long lasting effects. Not classified Not classified. Not classified. No data available. No data available Oncorhynchus mykiss LC₅₀ (96 h) > 100 mg/L <i>Daphnia magna</i> EC₅₀ (48 h) > 100 mg/L
Section 13: Disposal considerations	
Product disposal: Container disposal:	Dispose of this product only by using according to the label or through an agricultural chemical disposal or hazardous substance service. Do not allow material to contaminate ground water system or surface water. Triple rinse container and add residue to spray tank. Recycle clean, empty container through an agrichemical recycling service if possible or crush and 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: UN proper shipping name:	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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UN class:	N.O.S. (Glyphosate 54%)
Packing group:	9
HAZCHEM:	III
Marine pollutant:	3Z
Special precautions:	Yes
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	This product is classified as a Dangerous Good Class 9. Consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2012 Transport of Dangerous Goods on Land for more information.

Section 15: Regulatory information

HSNO:	Approved substance under the HSNO Act 1996.																								
Substance approval number:	HSR100587																								
Tolerable exposure limit / environmental exposure limit:	No limits set.																								
HSNO controls:	See www.epa.govt.nz																								
	<table> <tr> <td>Qualifications</td><td>Yes</td></tr> <tr> <td>Tracking:</td><td>No</td></tr> <tr> <td>Safety Data Sheet:</td><td>Any quantity</td></tr> <tr> <td>Restricted to workplace only:</td><td>No</td></tr> <tr> <td>Quantity that must be secured when unattended:</td><td>-</td></tr> <tr> <td>Fire extinguishers</td><td>-</td></tr> <tr> <td>Quantity for secondary containment and emergency response plan:</td><td>1000 L</td></tr> <tr> <td>Quantity for signage:</td><td>1000 L</td></tr> <tr> <td>Quantity for Location certificate</td><td>-</td></tr> <tr> <td>Records of use (3 kg or more applied to area within 24 hours)</td><td>Yes</td></tr> <tr> <td>Quantity that requires management in accordance with HSW HS Regulations</td><td>-</td></tr> <tr> <td>Hazardous Substances (Packaging) Notice 2017; Clause 9</td><td>UN Pack Group III</td></tr> </table>	Qualifications	Yes	Tracking:	No	Safety Data Sheet:	Any quantity	Restricted to workplace only:	No	Quantity that must be secured when unattended:	-	Fire extinguishers	-	Quantity for secondary containment and emergency response plan:	1000 L	Quantity for signage:	1000 L	Quantity for Location certificate	-	Records of use (3 kg or more applied to area within 24 hours)	Yes	Quantity that requires management in accordance with HSW HS Regulations	-	Hazardous Substances (Packaging) Notice 2017; Clause 9	UN Pack Group III
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Additional information:	Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. 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.																								
Registration number:	P10203																								
Conditions of registration:	See www.foodsafety.govt.nz																								

Section 16: Other information

Date of issue:	16/05/2025
Reason for reissue:	Updated label
Replaces:	Not applicable
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
Personal Protection Standards:	The following Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715 , Protective Gloves: AS 2161 , Occupational Protective Clothing: AS/NZS 4501 , Industrial Eye Protection: AS1336 and AS/NZS 1337 , Occupational Protective Footwear: AS/NZS2210

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.