


Reaper 688SG



Section 1: Identification

Product name:	Reaper 688SG
Other names:	Glyphosate 688
Recommended use:	A concentrated granular herbicide for the control of a wide range of broadleaf weeds and grasses in agriculture, horticulture, forestry and non-cropland areas.
Manufacturer/Importer details:	Agritrade 1 Robin Mann Place Christchurch Airport PO Box 292, Christchurch 8140 Phone: 03 372 0890
24-hour emergency contact:	0800 CHEMCALL (0800 243622)
National Poison Centre:	0800 POISON (0800 764766)

Section 2: Hazard identification

	Product is classified as hazardous according to the Hazardous Substances (Classification) Notice 2017 of the HSNO Act, 1996.
HSNO Approval:	HSR100959
Hazardous classification:	6.1E, 6.3A, 8.3A, 9.1B
Pictograms:	
Signal word:	DANGER
Hazard statements:	H303 May be harmful if swallowed. H313 May be harmful in contact with skin. H333 May be harmful if inhaled. H315 Causes skin irritation. H318 Causes serious eye damage. 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 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. P312 Call a POISON CENTRE or doctor if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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P332+P313 If skin irritation occurs: Get medical attention.
P362 Take off contaminated clothing and wash before re-use.
P304+P312 IF INHALED: Call a POISON CENTRE or doctor if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTRE or doctor.
P391 Collect spillage.

Storage statement:

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Disposal statement:

P501 Dispose of product and containers in accordance with local Regulations. See Section 13 of this SDS.

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 (present as ammonium salt*)	40465-66-5	75.7
Ethoxylated tallow amine	61791-26-2	5-15
Other ingredients	Proprietary	To 100

* Equivalent to 68.8% Glyphosate acid (CAS No. 1071-83-6)

Section 4: First-aid measures

Ingestion:

Immediately call the National Poisons Centre (0800 764 766) or a doctor for advice. Do NOT induce vomiting unless told to do so by the National Poisons Centre or a doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

Inhalation:

Move person to fresh air and keep at rest in a position comfortable for breathing. Call the National Poisons Centre or doctor if the person feels unwell. If person is not breathing dial 111 for an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

Eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call the National Poisons Centre or a doctor for advice.

Skin contact:

Wash with plenty of soap and water. If skin irritation occurs get medical attention. Take off contaminated clothing and wash before reuse.

First aid facilities:

Provide eye baths and safety showers close to areas where product contact or splashing may occur.

Advice to doctor:

Treat symptomatically. Probable mucosal damage may contraindicate the usage of gastric lavage.

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Section 5: Fire-fighting measures

Flammability:	Non-flammable.
Potential hazards:	Avoid generation of dust. Fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.
Appropriate extinguishing media:	Water spray, foam, CO ₂ or dry powder.
Unsuitable extinguishing media:	High pressure water streams.
Combustion products:	May release oxides of carbon and nitrogen in case of fire. May release irritating and toxic gases due to thermal decomposition.
Special protective equipment and precautions for fire-fighters:	In case of fire wear full chemical resistant protective clothing and a self-contained breathing apparatus.
HAZCHEM code:	2Z

Section 6: Accidental release measures

Personal precautions:	Wear protective clothing (overalls buttoned at wrist and neck), chemical resistant gloves and boots and chemical goggles or face shield.
Environmental precautions:	Contain 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.
Procedure for clean up:	Recover solid granules without generating dust. If diluted liquid spill then absorb with inert absorbent material such as sand or clay granules. Sweep absorbent material into an appropriate, labelled, waste container and dispose of at an approved facility. Cover the area with water and absorb. 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. Minimize dust generation and accumulation, avoid breathing dust when mixing. 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 original container, tightly closed and in a locked, dry, cool, well-ventilated area away from foodstuffs. Store in accordance with NZS8409 Management of Agrichemicals. Do not store in galvanised steel containers.

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Section 8: Exposure controls/personal protection

Occupational exposure limits:	No WES or TEL values are set at this time. Note: It is recommended that airborne concentrations should be kept below 3 mg/m ³ for respirable particulates and 10 mg/m ³ for inhalable particulates.
Engineering controls:	Ventilation required. Provide appropriate exhaust ventilation in places where dust may be formed.
Hand protection:	Elbow-length PVC, rubber, neoprene or nitrile gloves.
Eye protection:	Goggles with side pieces or a face shield.
Skin protection:	Overalls and rubber or PVC 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.

Section 9: Physical and chemical properties

(a)	Appearance:	Homogenous, free-flowing, white-slight yellow granule.
(b)	Odour:	No odour.
(c)	Odour threshold:	No data available.
(d)	pH:	3 – 8 (1% solution).
(e)	Melting point/freezing point:	No data available.
(f)	Initial boiling point and boiling range:	No data available.
(g)	Flash point:	Not flammable.
(h)	Flammability (solid, gas):	Not flammable.
(i)	Upper/lower flammability or explosive limits:	Not applicable.
(j)	Vapour pressure:	No data available.
(k)	Vapour density:	No data available.
(l)	Relative density:	0.611 g/cc
(m)	Solubility:	Readily 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 applicable.

Section 10: Stability and reactivity

Stability of the substance:	Stable under normal conditions of storage and use.
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Conditions to avoid:	Spray solutions of this product should be mixed, stored or applied using only stainless steel, aluminium, fibreglass, plastic or plastic lined containers. Avoid generation of dust and contact with strong oxidising agents and direct sunlight.
Incompatible materials:	Corrosive to mild steel, galvanised steel and zinc.
Hazardous decomposition products:	Oxide of carbon, oxides of nitrogen.
Section 11: Toxicological information	
	Toxicity classifications determined by assessment of the components in the formulated mixture.
a) Acute toxicity:	May be harmful if ingested, in contact with skin or inhaled.
b) Aspiration hazard:	Not classified.
c) Respiratory irritation:	Dust may be mildly irritating to mucous membranes and respiratory tract.
d) Skin corrosion / irritation:	Irritating to skin.
e) Serious eye damage / irritation:	Corrosive to ocular tissue. May cause serious eye damage.
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.
Toxicological information for product:	Acute oral LD ₅₀ (rat): 2000 mg/kg bodyweight Acute dermal LD ₅₀ (rat): 2000 mg/kg bodyweight Acute inhalation LC ₅₀ 4 hr (rat): >2.1 mg/l
Section 12: Ecological information	
	Ecotoxicological classifications determined by assessment of the components in the formulated mixture.
a) Aquatic toxicity:	Toxic to aquatic life with long lasting effects
b) Soil environment:	Not classified.
c) Terrestrial vertebrate toxicity:	Not classified.
d) Terrestrial invertebrate toxicity:	Not classified.
e) Persistence and degradability:	Absorption studies indicate glyphosate has very low mobility.
f) Potential for bioaccumulation:	Average field half-life of glyphosate is 47 days.
g) Other adverse effects:	Information not available.

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Ecotoxicological information for product (based on similar product):	Aquatic toxicity –	Bluegill sunfish LC ₅₀ (96 hr): 5.8-14 mg/L Rainbow trout LC ₅₀ (96 hr): 8.2-26 mg/L Fathead minnow LC ₅₀ (96 hr): 9.4 mg/L
Ecotoxicological information for active ingredient (glyphosate):	Vertebrate toxicity – Invertebrate toxicity –	LD ₅₀ (Bobwhite quail): >3850 mg/kg (Not toxic to birds) LD ₅₀ (Bee): >100 µg/bee (Not toxic to bees)
Section 13: Disposal considerations		
Product disposal:	Dispose of this product only by using according to the label or through Agrecovery chemical disposal or similar approved service or to an approved landfill.	
Container disposal:	Recycle through Agrecovery if possible or appropriate recycling facility. Alternatively, 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:	3077	
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains glyphosate 68.8%)	
UN class:	9	
Packing group:	III	
HAZCHEM:	2Z	
Marine Pollutant:	Yes.	
Special precautions:	Must not be loaded with Class 1 (Explosives).	
	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:	HSR100959; Reaper 688SG Herbicide	
Tolerable exposure limit / environmental exposure limit:	No limits set.	
HSNO controls:	See www.epa.govt.nz	
Additional controls:	A restriction has been placed on the use of the substance. (1) Where the substance is applied onto or into water and the water has the potential to leave the place containing the application area, any application of the substance must be under the personal control of an approved handler.	

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	(2) For the purpose of Clause (1), water means water in all its physical forms, whether flowing or not, and whether over or under ground, but does not include water in any form while in a pipe, tank or cistern.
ACVM:	Registered under the Agricultural Compounds Veterinary Medicines Act 1997.
Registration number:	P9050
Conditions of registration:	See www.foodsafety.govt.nz
Section 16: Other information	
Date of issue:	14/03/2019
Reason for reissue:	Review of SDS and product information.
Replaces:	SDS issued 28/11/2018
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 HSNO: Hazardous substances and New Organisms Act 1996 (HSNO Act) EPA: Environmental Protection Authority of New Zealand CAS Number: Chemical Abstracts Service Number LD ₅₀ : Lethal Dose 50% (Population) LC ₅₀ : Lethal Concentration 50% (Population) WES-TWA: Workplace exposure standards – Time-weighted average WES-STEL: Workplace exposure standards – Short-term exposure limit

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.