


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 Poisons Centre:	0800 POISON (0800 764766)

Section 2: Hazard identification

	Product is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996.
HSNO Approval:	HSR100959
Hazardous classification:	Skin irritant Category 2, Eye damage Category 1, Hazardous to the aquatic environment chronic Category 2.
Pictograms:	
Signal word:	DANGER
Hazard statements:	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, 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. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P332 + P313 If skin irritation: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.

Reaper 688SG



	<p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTRE or doctor.</p>
Storage statements:	-
Disposal statement:	P501 Dispose of product and containers in accordance with local Regulations. See Section 13 for details.
Additional Label Requirements:	<p>Do not apply into or onto water.</p> <p>Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.</p>

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

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.
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 occurs get medical attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice.
First aid facilities:	
Advice to doctor:	Provide eye baths and safety showers close to areas where product contact or splashing may occur.

Treat symptomatically.	
Section 5: Fire-fighting measures	
Flammability:	Non-flammable. However, 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, dry powder, carbon dioxide. Do NOT use high pressure water stream.
Hazardous decomposition products:	In a fire, may release oxides of carbon and nitrogen.
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:	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. Keep container tightly closed when not in use. Store in secure, cool, well-ventilated area away from foodstuffs, seeds, fertilisers and human/animal health products. Storage must be in accordance with the current version NZS 8409 Management of Agrichemicals.

Section 8: Exposure controls/personal protection

Occupational exposure limits:	<i>Ingredient</i>	<i>CAS No.</i>	<i>WES-TWA</i>	<i>WES-STEL</i>
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 particle 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:	Homogenous, free-flowing, white-slight yellow granule.
(b)	Odour:	Odourless.
(c)	Odour threshold:	Not available.
(d)	pH:	3.0 – 8.0 (1% aqueous solution).
(e)	Melting point/freezing point:	Not available.
(f)	Initial boiling point and boiling range:	Not applicable.
(g)	Flash point:	Not applicable.
(h)	Flammability (solid, gas):	Non-flammable.
(i)	Upper/lower flammability or explosive limits:	Not available.
(j)	Vapour pressure:	No data available.
(k)	Vapour density:	No data available.
(l)	Relative density:	0.611
(m)	Solubility:	Soluble in water.
(n)	Partition coefficient: n-octanol/water:	Not available.

Reaper 688SG

(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:	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:	Not classified.
d)	Skin corrosion / irritation:	Skin irritant.
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.
m)	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 active ingredient.	
(a)	Aquatic ecotoxicity:	Toxic to aquatic life with long lasting effects.
(b)	Soil ecotoxicity	Not classified.

Reaper 688SG



(c)	Terrestrial vertebrate ecotoxicity:	Not classified.
(d)	Terrestrial invertebrate ecotoxicity:	Not classified.
(e)	Persistence and degradability:	Absorption studies indicate glyphosate has very low mobility. Average field half-life of glyphosate is 47 days.
(f)	Potential to be bioaccumulative:	No indication product is bioaccumulative.
(g)	Mobility in soil.	Product is soluble in water.
(h)	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
(i)	Ecotoxicological information for active ingredient (glyphosate):	Vertebrate toxicity – LD ₅₀ (Bobwhite quail): >3850 mg/kg (Not toxic to birds) Invertebrate toxicity – 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. Do not allow material to contaminate ground water system or surface water.	
Container disposal:	Triple rinse container and add residue to spray tank. Recycle clean, empty container through Agrecovery if possible or 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.	

Reaper 688SG

Substance approval number:	Approved substance under the HSNO Act 1996. HSR100959; Reaper 688SG Herbicide																								
Tolerable exposure limit / environmental exposure limit:	No limits set.																								
HSNO controls:	See www.epa.govt.nz																								
Additional controls:	<table border="0"> <tr> <td>Qualifications</td> <td>No</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 kg</td> </tr> <tr> <td>Quantity for signage:</td> <td>1000 kg</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>-</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	No	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 kg	Quantity for signage:	1000 kg	Quantity for Location certificate	-	Records of use (3 kg or more applied to area within 24 hours)	-	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:	P9050																								
Conditions of registration:	See www.foodsafety.govt.nz																								
Section 16: Other information																									
Date of issue:	9/05/2024																								
Reason for reissue:	Review and update of SDS and HSNO Controls.																								
Replaces:	SDS issued 14 March 2019																								
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																								

Reaper 688SG



	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.