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Section 1: Identification	
Product name:	Dynamite™
Other names:	2,4-D ethyl hexyl ester 680EC
Recommended use:	Selective herbicide for control of broadleaf weeds in pasture and turf.
Manufacturer/Importer details:	PGG Wrightson Limited 1 Robin Mann Place Christchurch Airport Christchurch New Zealand
	Phone: 03 372 0800 or 0800 102 276
24 hour emergency contact:	0800 CHEMCALL (0800 243 622)
National Poisons Centre:	0800 POISON (0800 764 766)
Section 2: Hazard identificatio	n
	Product is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996.
HSNO Approval:	HSR000962
Hazardous classification:	Acute oral toxicity Category 4, Skin sensitisation Category 1, Specific target organ toxicity (repeat exposure) Category 1, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1, Hazardous to soil organisms, Hazardous to terrestrial vertebrates.
Signal word: Hazard statements:	<ul> <li>DANGER</li> <li>H302 Harmful if swallowed.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H400 Very toxic to aquatic life.</li> <li>H421 Very toxic to the soil environment.</li> <li>H432 Harmful to terrestrial vertebrates.</li> </ul>



Prevention statements:	P102 Keep out of reach of child P103 Read label before use. P260 Do not breathe mist/vapor P264 Wash exposed skin thoro P270 Do not eat, drink or smoke P271 Use only outdoors or in w P272 Contaminated work clothi the workplace. P273 Avoid release to the envir P280 Wear eye protection/face	urs/spray. ughly after hanc e when using thi ell-ventilated are ng should not be onment.	s product. ea. e allowed out of
Response statements:	P101 If medical advice is needed at hand. P301 + P312 IF SWALLOWED doctor if you feel unwell. P330 Rinse mouth. P302 + P352 IF ON SKIN: Was P333 + P313 If skin irritation or P363 Wash contaminated cloth P314 Get medical advice if you P312 Call a POISON CENTRE P391 Collect spillage.	Call a POISON h with plenty of rash occurs: Ge ing before reuse feel unwell.	I CENTRE or soap and water. et medical advice.
Storage statement/s:	Not required		
Disposal statement/s:	P501 Dispose of product and co Regulations. See section 13 for		ordance with local
Additional Label requirements:	Do not apply directly into or onto product label).	o water (except a	as allowed for on
	Take all reasonable steps to en cause any significant adverse e the application area.		
Section 3: Composition/inform	nation on ingredients		
Chemical identity of ingredients			
with health or environmental	<i>Ingredient</i> 2,4-D ethyl hexyl ester	CAS No. 1928-43-4	Proportion w/w 59
hazards:	Other ingredients	Trade secret	Balance
	*2,4-D ethyl hexyl ester 680 g/L		
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 at 0800 POISON (0800 764 766) or a doctor.		
Inhalation:	Remove person to fresh air and keep at rest in a position comfortable for breathing until recovered. Get medical advice if person feels unwell.		
Ingestion:	Rinse mouth. Get medical advice	e if person feels	s unwell.
Skin contact:	Wash with soap and water. Get medical advice if irritation or rash occurs.		
Eve contact:	Ripse cautiously with water for	several minutes	Remove contact



First aid facilities:	Provide eye baths and safety showers close to areas where product contact or splashing may occur.			
Advice to doctor:	Treat symptomatic			
Section 5: Fire-fighting measures				
Flammability:	Non-flammable. Not a fire or explosion hazard.			
Appropriate extinguishing media:	Foam, water sprag	y, dry powder, carbo	on dioxide (CO	2).
Combustion products:	Smoke, carbon die compounds.	oxide, carbon monc	oxide and other	unidentified
Special protective equipment and precautions for fire- fighters:	Wear protective e apparatus (SCBA	quipment including ).	self-contained	breathing
HAZCHEM code:	3Z			
Section 6: Accidental release	measures			
Personal precautions:	ns: Wear protective equipment; chemical resistant coveralls, boots, gloves, eye protection. Wear respiratory protection if there is a risk of contact with vapours or mist.			
Environmental precautions:		vent from entering w rities if contamination		
Procedure for clean up:	Contain and recover liquid into labelled container for re-use or disposal. Absorb residue or small spills with suitable material, e.g. sand, vermiculite. Dispose of contaminated waste to approved landfill.			
Section 7: Handling and stora	ge			
Safe handling:	Read label before use. Wear personal protective equipment. To be used only by suitably qualified person and in compliance with HSNO Controls.			
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 NZS 8409 Management of Agrichemicals.			
Section 8: Exposure controls/personal protection				
Occupational exposure limits:	Ingredient	Form of exposure	WES-TWA	WES-STEL
	-	-	-	-
Biological limit value:	No Workplace Exposure Standard or Biological Exposure Indices are set for 2,4-D ethyl hexyl ester as of WorkSafe's 14 <sup>th</sup> edition of WES and BEI values, published in November 2023.			
Engineering controls:	Use with adequate	e ventilation, i.e. out	doors.	
Respiratory protection:	Not required if used outdoors with adequate ventilation. If risk of inhalation, wear respirator fitted with suitable filter.			



Hand protection:	Waterproof gloves, e.g. PVC, nitrile.
Eye protection:	Chemical goggles, safety glasses with side shields or face shield.
Skin protection:	Chemical resistant coveralls and closed in 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:	Brown liquid	
(b)	Odour:	Slight hydrocarbon	
(c)	Odour threshold:	Not available	
(d)	pH:	3.0 – 5.0 (aqueous dilution)	
(e)	Melting point/freezing point:	Not available	
(f)	Initial boiling point and boiling range:	Not available	
(g)	Flash point:	Non-flammable	
(h)	Flammability (solid, gas):	Not applicable	
(i)	Upper/lower flammability or explosive limits:	Not applicable	
(j)	Vapour pressure:	Not available	
(k)	Vapour density:	Not available	
(I)	Relative density:	1.1 – 1.2	
(m)	Solubility:	Emulsifies in water.	
(n)	Partition coefficient n-ocatanol/water:	Not available	
(0)	Auto-ignition temperature:	Not available	
(p)	Decomposition temperature:	Not available	
(q)	Kinematic viscosity:	Not available	

Stability of the substance:	Stable under normal conditions of storage and use.
Conditions to avoid:	No information available.
Incompatible materials:	Strong acids, alkalis and oxidising agents.
Hazardous decomposition products:	Not known to occur.

## Section 11: Toxicological information

		Toxicity classifications determined by assessment of the components in the formulated mixture.
(i)	Acute toxicity:	Classified as harmful if ingested, by dermal absorption or by inhalation (6.1D all). Symptoms may include headache, nausea and vomiting.
(ii)	Aspiration hazard:	Not classified as aspirant hazard.
(iii)	Respiratory irritation:	Not classified.
(iv)	Skin corrosion / irritation:	Mildly irritating to skin.
(v)	Serious eye damage / irritation	May cause mild transient irritation to eyes.

## Dynamite™



(vi)	Respiratory or skin sensitisation:	2,4-D ethyl hexyl ester identified as contact sensitiser.
(vii)	Germ cell mutagenicity:	Not classified for mutagenic effects.
(viii)	Carcinogenicity:	Not classified for carcinogenic effects.
(ix)	Reproductive toxicity:	Not classified for fertility or developmental effects.
(x)	Specific organ toxicity:	Causes adverse effects to kidneys, liver, gastrointestinal tract and muscular system if prolonged or repeated exposure.
(xi)	Narcotic effects:	Not classified for narcotic effects.
	blogical information for ingredient:	Oral LD <sub>50</sub> (mouse): 673 mg/kg bodyweight
Section	on 12: Ecological informa	ation
		Ecotoxicological classifications determined by assessment of the components in the formulated mixture.
(a)	Aquatic toxicity:	Very toxic to aquatic life.
(b)	Soil environment:	Very toxic to the soil environment.
(c)	Terrestrial vertebrate toxicity:	Harmful to terrestrial vertebrates.
(d)	Terrestrial invertebrate toxicity:	Not classified.
(e)	Persistence and degradability:	Soil $DT^{50}$ : <1 day However as 2,4-D ethyl hexyl ester has low water solubility, degradation is slower in water.
(f)	Potential to be bioaccumulative:	Identified as bioaccumulative
(g)	Mobility in soil:	Product emulsifies in water.
	xicological information for ingredient:	<i>Skeletonema costatum</i> (algae) EC <sub>50</sub> (72h) 0.23 mg/L <i>Daphnia</i> sp EC <sub>50</sub> (48 h) 5.2 mg/L Bird LD <sub>50</sub> 633 mg/kg
Section	on 13: Disposal consider	ations
Produ	ct 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.
Conta	iner disposal:	
	iner disposal: on 14: Transport informa	or to an approved landfill. 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.
Sectio	on 14: Transport informa	or to an approved landfill. 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 UN nu UN pr	on 14: Transport informa Imber: oper shipping name:	or to an approved landfill. 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. tion
Section UN nu UN pr UN cla	on 14: Transport informa Imber: oper shipping name: ass:	or to an approved landfill. 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. <b>tion</b> 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D ETHYL HEXYL ESTER 68%) 9
Sectio UN nu UN pr UN cla Packii	on 14: Transport informa Imber: oper shipping name: ass: ng group:	or to an approved landfill. 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. tion 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D ETHYL HEXYL ESTER 68%)
Section UN nu UN pr UN cla Packin Subsid	on 14: Transport informa Imber: oper shipping name: ass:	or to an approved landfill. 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. tion 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D ETHYL HEXYL ESTER 68%) 9

## SAFETY DATA SHEET Last revised: August 2024 **Dynamite**<sup>™</sup>

Special precautions:

PGG Wrightson
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This product is classified as a Dangerous Good. Consult the Land
Transport Rule: Dangerous Goods 2005 and NZS 5433:2012 Transport of Dangerous Goods on Land for more information
ation

Section 15: Regulatory information		
HSNO:	Approved substance under the HSNO Act 1996.	
HSNO approval number:	HSR000962 – GF-1320	
Tolerable exposure limit / environmental exposure limit:	None Set	
HSNO controls:	See <u>www.epa.govt.nz</u>	
Additional controls:	Do not apply onto or into water	
ACVM:	Registered under the Agricultural Compounds Veterinary Medicines Act 1997.	
ACVM registration number:	P9761	
Conditions of registration:	See <u>www.foodsafety.govt.nz</u>	
Section 16: Other information		
Date of issue: Reason for reissue: Replaces:	28 August 2024 Update to GHS7 SDS issued 11 January 2021	
Information references:	Supplier Safety Data Sheet NZ EPA Approved hazardous substances with controls 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 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 BEI: Biological Exposure Indices WES: Workplace Exposure Standards	
Personal Protection Standards:	The following Standards provide general advice regarding safety clothing and equipment:	
	Respiratory equipment: <b>AS/NZS 1715</b> , Protective Gloves: <b>AS</b> <b>2161</b> , Occupational Protective Clothing: <b>AS/NZS 4501</b> , Industrial Eye Protection: <b>AS1336</b> and <b>AS/NZS 1337</b> , Occupational Protective Footwear: <b>AS/NZS2210</b>	

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.