

Infosafe No™ 3NUFF      Issue Date : May 2024      ISSUED by NUFARMNZ

Product Name **RELAY® SUPER S**

## Section 1 - Identification

**Product Identifier** RELAY® SUPER S  
**Product Code** 00920  
**Product Type** Herbicide  
**Company Name** Nufarm NZ  
**Address** Central Park, Building 3, Level 4, 666 Great South Road Ellerslie  
Auckland 1051 New Zealand  
**Telephone/Fax Number** Tel: 0-9-270 4150  
**Emergency Phone Number** 0800 651 911  
**Email** nzinfo@nufarm.com  
**Recommended uses and any restrictions on use or supply** Selective herbicide for broadleaf weed control in pasture and turf.

## Section 2 - Hazard(s) Identification

**GHS classification of the substance/mixture** Acute oral toxicity: Category 4  
Skin sensitization: Category 1  
Specific target organ toxicity - repeated exposure: Category 1  
Hazardous to the terrestrial environment: Hazardous to soil organisms  
Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates  
Hazardous to the aquatic environment acute Category 1  
Hazardous to the aquatic environment chronic Category 1

**Signal Word (s)** DANGER

**Hazard Statement (s)** H302 Harmful if swallowed.  
H332 Harmful if inhaled.  
H317 May cause an allergic skin reaction.  
H372 Causes organ damage through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.  
H421 very toxic to the soil environment.  
H433 Harmful to terrestrial vertebrates.

**Precautionary Statement – General** P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.

**Pictogram (s)** Exclamation mark, Health hazard, Environment



**Precautionary Statement – Prevention** P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands and face thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

**Precautionary Statement – Response** P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P314 Get medical advice/attention if you feel unwell.  
P330 Rinse mouth.

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**Precautionary Statement – Disposal**

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P391 Collect spillage.  
P501 Dispose of contents/container to an approved landfill.

### Section 3 - Composition and Information on Ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	2,4-D (present as the ethyl hexyl ester)	1928-43-4	680 g/L
	Ingredients determined to be non-hazardous	-	0-10 %

### Section 4 - First Aid Measures

**First-aid Measures** For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.

**Inhalation** Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.

**Ingestion** Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.

**Skin** Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.

**Eye** Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.

**First-aid Facilities** Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

**Advice to Doctor** Treat symptomatically.  
If vomiting occurs, surfactants present may cause pulmonary pneumonitis.

### Section 5 - Firefighting Measures

**Suitable Extinguishing Media** Water fog, foam, carbon dioxide or dry chemical.

**Hazards from Combustion Products** Although material is not flammable, the concentrate is combustible. May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.

**Special protective equipment for fire-fighters** Full protective clothing and self-contained breathing apparatus.

**Specific Methods** Keep up wind. Do not allow washings to reach sewage or effluent systems.

**Specific hazards arising from the chemical** Toxic fumes under fire conditions are emitted.

**Hazchem Code** 2X

**Decomposition Temperature** Information is not available.

**Other Information** Location Certificate: Not applicable  
Hazardous Atmosphere Zone: Not applicable  
Number of Fire Extinguishers: Not applicable

### Section 6 - Accidental Release Measures

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<b>Spills and Disposal</b>	Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers.

## Section 7 - Handling and Storage

<b>Precautions for Safe Handling</b>	The person mixing or applying RELAY SUPER S must be a 'Qualified Contractor' or a 'Qualified Loader'. The spray mixture may also be prepared by a 'Qualified Loader'. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017. Avoid skin and eye contact and inhalation of spray mist. This product must not be applied onto or into water. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. CERTIFIED HANDLER: Is not required. TRACKING: Is not required. RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals, must be kept whenever RELAY SUPER S is used.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100L of RELAY SUPER S require secondary containment and are subject to signage, and more than 100L require emergency response plans.
<b>Other Information</b>	Always read the label and any attached leaflet before use. Aggregate Storage Volume Thresholds: When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

## Section 8 - Exposure Controls and Personal Protection

<b>Occupational Exposure Limits (OEL)</b>	No exposure standard has been established for this product. WES TWA for 2,4-D = 10mg/m <sup>3</sup>
<b>Appropriate Engineering Controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
<b>Hygiene Measures</b>	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

## Section 9 - Physical and Chemical Properties

<b>Form</b>	Liquid
<b>Appearance</b>	Clear brown liquid.
<b>Odour</b>	Typical phenoxy odour.
<b>Decomposition Temperature</b>	Information is not available.
<b>Melting Point</b>	-5°C
<b>Boiling Point</b>	>200°C (2,4-D 2EHE)

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<b>Solubility in Water</b>	Disperses.
<b>Specific Gravity</b>	1.14g/mL (20°C)
<b>pH</b>	2.0 - 6.5
<b>Vapour Pressure</b>	47.9mPa (25°C) for active ingredient 2,4-D-2-ethylhexyl.
<b>Vapour Density (Air=1)</b>	Information is not available.
<b>Odour Threshold</b>	Information is not available.
<b>Partition Coefficient: n-octanol/water</b>	Kow LogP = 5.78 (25°C) for active ingredient 2,4-D-2-ethylhexyl.
<b>Flash Point</b>	>100°C (pmcc)
<b>Flammability</b>	Combustible.
<b>Auto-ignition Temperature</b>	Information is not available.
<b>Flammable Limits - Lower</b>	Information is not available.
<b>Flammable Limits - Upper</b>	Information is not available.
<b>Kinematic Viscosity</b>	Information is not available.
<b>Particle Characteristics</b>	Information is not available.
<b>Other Information</b>	(EC) Emulsifiable concentrate

## Section 10 - Stability and Reactivity

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Incompatible Materials</b>	Acids, alkalis and oxidising materials.
<b>Hazardous Decomposition Products</b>	Thermal decomposition products include: hydrogen chloride.
<b>Possibility of Hazardous Reactions</b>	Keep away from strong oxidising agents, may react violently.
<b>Hazardous Polymerization</b>	Not known to occur.

## Section 11 - Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rats) is 8965mg/kg for for active ingredient 2,4-D-2-ethylhexyl.
<b>Acute Toxicity - Inhalation</b>	LC50 (rats) >3.5mg/L for for active ingredient 2,4-D-2-ethylhexyl.
<b>Acute Toxicity - Dermal</b>	LD50 (rabbits) >2000mg/kg for for active ingredient 2,4-D-2-ethylhexyl.
<b>Skin Corrosion/Irritation</b>	Harmful if in contact with the skin.
<b>Serious Eye Damage/Irritation</b>	Slight eye irritant for active ingredient 2,4-D-2-ethylhexyl.
<b>Skin Sensitisation</b>	May cause an allergic skin reaction.
<b>Germ Cell Mutagenicity</b>	Results of mutagenicity tests have been inconclusive. Has been shown to be negative in some in vitro ('test-tube') mutagenicity tests and positive in others.
<b>Carcinogenicity</b>	Various animal cancer tests have shown no reliably positive association between 2,4-D exposure and cancer. Epidemiology studies have been both positive and negative with the majority being negative.

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<b>Reproductive Toxicity</b>	Exposure levels having no effect on the mother should have no effect on the foetus. Excessive dietary levels of 2,4-D caused toxic effects (weight and viability reduction) in rats in a reproduction test.
<b>STOT - Single Exposure</b>	Information is not available.
<b>STOT - Repeated Exposure</b>	Causes organ damage through prolonged or repeated exposure.
<b>Aspiration Hazard</b>	Information is not available.

## Section 12 - Ecological Information

<b>Persistence and Degradability</b>	Rapidly hydrolysed in soil and water to the parent acid; DT50 <1d for active ingredient 2,4-D-2-ethylhexyl.
<b>Mobility</b>	Information is not available.
<b>Bioaccumulative Potential</b>	Information is not available.
<b>Acute Toxicity - Fish</b>	LC50 for fathead minnows, bluegill sunfish and rainbow trout greater than solubility in water for active ingredient 2,4-D-2-ethylhexyl.
<b>Acute Toxicity - Daphnia</b>	EC50(48h) is 5.2mg/L for active ingredient 2,4-D-2-ethylhexyl.
<b>Acute Toxicity - Algae</b>	EC50 for skeletonema costatum is 0.23mg/L for active ingredient 2,4-D-2-ethylhexyl.
<b>Acute Toxicity - Other Organisms</b>	LD50 for bees (contact and oral) >100µg/bee for active ingredient 2,4-D-2-ethylhexyl. LC50 for mallard ducks is 663mg/kg for active ingredient 2,4-D-2-ethylhexyl.

## Section 13 - Disposal Considerations

<b>Product Disposal</b>	Dispose of product only by using according to the label, or at an approved landfill.
<b>Container Disposal</b>	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

## Section 14 - Transport Information

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>UN Number</b>	3082
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (2,4-D)
<b>Hazard Class</b>	9
<b>Hazchem Code</b>	2X
<b>Packaging Method</b>	-
<b>Packing Group</b>	III
<b>EPG Number</b>	-
<b>IERG Number</b>	47
<b>IMO Marine Pollutant</b>	Yes. Environmentally Hazardous Substance mark required.
<b>Other Information</b>	Do not carry this product on a passenger service vehicle.  Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

## Section 15 - Regulatory Information

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<b>National and or International Regulatory Information</b>	Registered pursuant to the ACVM Act 1997, No. P7630 See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000962 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.
<b>Packaging and Labelling</b>	READ SAFETY DIRECTIONS BEFORE OPENING OR USING KEEP OUT OF REACH OF CHILDREN

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## Section 16 - Any Other Relevant Information

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<b>Date of preparation or last revision of SDS</b>	December 2019.
<b>Revisions Highlighted</b>	5 yearly review carried out. Various changes and updates made to the document to comply with GHS7. ...End Of MSDS...

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