

Infosafe No™ 3NUT2	Issue Date : October 2024	ISSUED by NUFARMNZ
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 Product Name **KYTE® 700WG**

## Section 1 - Identification

<b>Product Identifier</b>	KYTE® 700WG
<b>Product Code</b>	00379
<b>Product Type</b>	Selective herbicide
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150
<b>Emergency Phone Number</b>	0800 651 911
<b>Email</b>	nzinfo@nufarm.com
<b>Recommended uses and any restrictions on use or supply</b>	Selective herbicide for controlling a range of weeds in clover seed crops and lucerne.
<b>Other Information</b>	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## Section 2 - Hazard(s) Identification

<b>GHS classification of the substance/mixture</b>	Acute inhalation toxicity: Category 4 Eye irritation Category 2 Hazardous to the terrestrial environment: Hazardous to soil organisms Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H332 Harmful if inhaled. H319 Causes serious eye irritation. H410 Very toxic to aquatic life with long lasting effects. H421 Very toxic to the soil environment.
<b>Precautionary Statement – General</b>	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.
<b>Pictogram (s)</b>	Exclamation mark, Environment



<b>Precautionary Statement – Prevention</b>	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands and face thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
<b>Precautionary Statement – Response</b>	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER/doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention. P391 Collect spillage.
<b>Precautionary Statement – Disposal</b>	P501 Dispose of contents/container to an approved landfill.

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## Section 3 - Composition and Information on Ingredients

**Chemical**                      Solid

### Characterization

Ingredients	Name	CAS	Proportion
	Imazethapyr	81335-77-5	700 g/kg
	Ingredients determined to be non-hazardous	-	10-30%
	Dispersants		10-30%

## Section 4 - First Aid Measures

<b>First-aid Measures</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Skin</b>	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.
<b>Eye</b>	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.
<b>First-aid Facilities</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
<b>Advice to Doctor</b>	Treat symptomatically.

## Section 5 - Firefighting Measures

<b>Suitable Extinguishing Media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion Products</b>	Avoid using large volumes of water which would spread the product. Avoid direct water jets, airborne dusts may create an explosion hazard. If involved in a major fire, could evolve oxides of carbon or nitrogen.
<b>Special protective equipment for fire-fighters</b>	Full protective clothing and self-contained breathing apparatus.
<b>Specific Methods</b>	Keep up wind. Do not allow washings to reach sewage or effluent systems.
<b>Specific hazards arising from the chemical</b>	No unusual fire and explosion hazards known.
<b>Hazchem Code</b>	2Z
<b>Decomposition Temperature</b>	Information is not available.
<b>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

## Section 6 - Accidental Release Measures

<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. Thoroughly scrub floor with a strong industrial type detergent solution and rinse with water.
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<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

## Section 7 - Handling and Storage

<b>Precautions for Safe Handling</b>	The person mixing or applying Kyte 700WG must be a 'Qualified Contractor' or a 'Qualified Person'. 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. <b>BEWARE:</b> Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. <b>CERTIFIED HANDLER:</b> Is not required. <b>TRACKING:</b> Is not required. <b>RECORD KEEPING:</b> Records of use, as described in NZS 8409 Management of Agrichemicals, must be kept if 3kg or more of Kyte 700WG is applied within 24 hours. Records must be kept for a minimum of 3 years from application date.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep out of reach of children. Store in original container tightly closed 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 100kg of Kyte 700WG are subject to signage, and more than 100kg require emergency response plans.
<b>Other Information</b>	Always read the label and any attached leaflet before use. <b>Aggregate Storage Volume Thresholds</b> 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 limits (WES, TEL, EEL's) have been specifically assigned for this product. WES TWA for Kaolin=10mg/m <sup>3</sup> inhalable dust and 2mg/m <sup>3</sup> , respirable dust.
<b>Appropriate Engineering Controls</b>	Use in a well ventilated area only. Local exhaust ventilation may be required in confined spaces.
<b>Personal Protective Equipment</b>	Avoid skin and eye contact and inhalation of spray mist. When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, waterproof hat, 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>	Solid
<b>Appearance</b>	White to off white to light brown cylindrical granules.
<b>Odour</b>	Information is not available.
<b>Decomposition Temperature</b>	Information is not available.
<b>Melting Point</b>	169-173°C for active ingredient imazethapyr.
<b>Boiling Point</b>	Decomp. 180°C for active ingredient imazethapyr.
<b>Solubility in Water</b>	Dispersible.
<b>pH</b>	3.0 - 7.0 (1% solution)

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<b>Vapour Pressure</b>	<0.013mPa (60°C) for active ingredient imazethapyr.
<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 = 1.04 (pH 5, 25°C) for active ingredient imazethapyr.
<b>Flash Point</b>	Information is not available.
<b>Flammability</b>	Danger of dust explosion.
<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>Relative Density</b>	1.10-1.12 (21°C) for active ingredient imazethapyr.
<b>Other Information</b>	(WG) Water Dispersible Granule

## Section 10 - Stability and Reactivity

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Incompatible Materials</b>	Do not mix, store or apply the product or spray solutions of the product in galvanised steel or unlined steel (except stainless steel) containers or spray tanks. Not compatible with aluminium.
<b>Possibility of Hazardous Reactions</b>	Keep away from strong oxidising agents.
<b>Hazardous Polymerization</b>	Hazardous polymerisation will not occur.

## Section 11 - Toxicological Information

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this SDS are followed.
<b>Acute Toxicity - Oral</b>	LD50 (male and female rats, and female mice) = >5,000mg/kg for active ingredient imazethapyr.
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) >3.27mg/L air for active ingredient imazethapyr.
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) = >2,000mg/kg for active ingredient imazethapyr.
<b>Inhalation</b>	Harmful if inhaled.
<b>Skin Corrosion/Irritation</b>	Prolonged contact with the concentrate may cause irritation.
<b>Serious Eye Damage/Irritation</b>	Causes serious eye irritation.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Germ Cell Mutagenicity</b>	Information is not available.
<b>Carcinogenicity</b>	Information is not available.
<b>Reproductive Toxicity</b>	Information is not available.

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<b>STOT - Repeated Exposure</b>	Information is not available.
<b>Aspiration Hazard</b>	Information is not available.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for imazethapyr for a human is 2.8 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 276 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Aust Govt Dept. of APVMA, 'ADI List', Edition 1/2024).

## Section 12 - Ecological Information

<b>Persistence and Degradability</b>	DT50 lab (aerobic, 20°C) 158d for active ingredient imazethapyr.
<b>Mobility</b>	Information is not available.
<b>Bioaccumulative Potential</b>	Imazethapyr has low bioaccumulation potential.
<b>Environmental Protection</b>	Spray drift can cause damage.
<b>Acute Toxicity - Fish</b>	LC50 (96h) bluegill sunfish is 420 mg/L for active ingredient imazethapyr.
<b>Acute Toxicity - Daphnia</b>	LC50 (48h) Daphnia is >1000 mg/L for active ingredient imazethapyr.
<b>Acute Toxicity - Algae</b>	NOEL for Selenastrum capricornutum is 50 mg/L for active ingredient imazethapyr.
<b>Acute Toxicity - Other Organisms</b>	LD50 acute oral for Bobwhite quail and Mallard ducks is > 2150 mg/kg for active ingredient imazethapyr. Imazethapyr is not toxic to bees. LD50 (48h) Bees >24.6 µg/bee oral, >100µg/bee contact for active ingredient imazethapyr.

## 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 the mixture. Recycle empty container.

## 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>	3077
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (imazethapyr)
<b>Hazard Class</b>	9
<b>Hazchem Code</b>	2Z
<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>EMS</b>	F-A, S-F
<b>Other Information</b>	Do not carry more than 3kg of Kyte 700WG 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. P9045 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 HSR100979. See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.
<b>Packaging and Labelling</b>	KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING

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## Section 16 - Any Other Relevant Information

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**Date of preparation or last revision of SDS** September 2022.**Contact Person/Point** IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE  
24Hr Tollfree Emergency No: 0800 651 911  
24Hr Emergency No: National Poisons Centre Phone: 0800 764 766**Revisions Highlighted** Various changes and updates made to the document to comply with GHS7.

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