

Infosafe No™ 3NUT2	Issue Date : May 2017	ISSUED by NUFARMNZ
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 Product Name **KYTE™700WG**

1. Identification

GHS Product Identifier	KYTE™700WG
Product Code	00379
Product Type	Selective herbicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150 Fax: 0-9-270 4159
Emergency phone number	0800 651 911
Email	info@nz.nufarm.com
Recommended use of the chemical and restrictions on use	Selective herbicide for controlling a range of weeds in clover seed crops and lucerne.
Other Information	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.

2. Hazard Identification

Other Information	6.1D acute toxicant, 6.3B skin irritant, 6.4A eye irritant, 9.1A aquatic toxicity, 9.2A soil toxicant TOXICITY Harmful- may be harmful if swallowed, inhaled or absorbed through the skin. May cause eye irritation or mild skin irritation. ECOTOXIC Very toxic to aquatic organisms. Selective herbicide-very toxic to some plant species.
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3. Composition/information on ingredients

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

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 contact	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.

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5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	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.
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	No unusual fire and explosion hazards known.
Hazchem Code	2Z
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & Disposal	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.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

7. Handling and storage

Precautions for Safe Handling	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner, or used by a commercial contractor. TRACKING: Is not required. RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3 kg or more is applied within 24 hours. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants Do not allow product to drift outside the target area.
Conditions for safe storage, including any incompatibilities	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.
Other Information	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.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure limits (WES, TEL, EEL's) have been specifically assigned for this product. WES TWA for Kaolin=10mg/m ³ inhalable dust and 2mg/m ³ , respirable dust.
Appropriate engineering controls	Use in a well ventilated area only. Local exhaust ventilation may be required in confined spaces.
Personal Protective Equipment	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

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Hygiene Measures the neck and wrist, and boots.
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.

9. Physical and chemical properties

Form Solid

Appearance White to off white to light brown cylindrical granules.

Melting Point Not applicable

Solubility in Water Dispersible

pH 3.0 - 7.0 (1% solution)

Flammability Danger of dust explosion.

Other Information (WG) Water Dispersible Granule

10. Stability and reactivity

Chemical Stability Stable under normal conditions of handling and storage.

Incompatible Materials 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.

Possibility of hazardous reactions Keep away from strong oxidising agents.

Hazardous Polymerization Hazardous polymerisation will not occur.

11. Toxicological Information

Toxicology Information No harmful effects are expected if the precautions on the label and this SDS are followed.

Acute Toxicity - Oral LD50 (rat) = >5,000mg/kg (imazethapyr)

Acute Toxicity - Dermal LD50 (rabbit) = >2,000mg/kg (imazethapyr)

Acute Toxicity - Inhalation LC50 (rat) >3.27mg/L air (imazethapyr)

Ingestion The concentrate is of low toxicity if swallowed.

Inhalation The components of the product are of low volatility and no adverse effects are expected from handling the concentrate.

Skin Prolonged contact with the concentrate may cause irritation.

Eye The concentrate will cause irritation of the eyes.

Skin Sensitisation Product is not a skin sensitiser.

Other Information 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: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', December 2014.).

12. Ecological information

Persistence and degradability DT50 lab (aerobic, 20C) 158d for Imazethapyr.

Bioaccumulative Potential Imazethapyr has low bioaccumulation potential.

Environmental Protection Spray drift can cause damage.

Acute Toxicity - Fish LC50 (96h) Rainbow trout is 340 mg/L (imazethapyr)
Bluegill sunfish is 420 mg/L (imazethapyr)
Channel catfish is 240 mg/L (imazethapyr)

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Acute Toxicity - Daphnia	LC50 (48h) Daphnia is >1000 mg/L (imazethapyr)
Acute Toxicity - Algae	NOEL for Selenastrum capricornutum is 50 mg/L (imazethapyr)
Acute Toxicity - Other Organisms	LD50 acute oral for Bobwhite quail and Mallard ducks is > 2150 mg/kg (imazethapyr) LC50 (14d) Worms > 15.7 mg/kg (imazethapyr) Not toxic to bees. LD50 (48h) Bees >24.6 µg/bee oral, >100µg/bee contact (imazethapyr)

13. Disposal considerations

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

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number	3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (imazethapyr 70%)
Transport hazard class(es)	9
Hazchem Code	2Z
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
EMS	F-A, S-F
Other Information	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.

15. Regulatory information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P9045 See www.foodsafety.govt.nz for registration conditions. Approved pursuant to the HSNO ACT 1996, Approval Code HSR100979. See www.epa.govt.nz for approval controls.
Packaging & Labelling	ECOTOXIC HARMFUL - Keep out of reach of children.
Hazard Rating Systems	NFPA/HMIS: 2-1-1

16. Other Information

Date of preparation or last revision of SDS	August 2015
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	Minor change made in the appearance of the product. ...End Of MSDS...



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