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Infosafe No™ 3NUA1

Issue Date :May 2024

ISSUED by NUFARMNZ

Product Name THISTROL® PLUS

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Product Identifier THISTENCLE FLUS Product Code 00992 Product Type Herbicide Company Name Nufarm NZ Address Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Aukchand 1051 New Scaland TelephoneFax "ei: 0-9-270 4150 Number Selective herbicide for controlling broadleaf weeds in young and established and any restriction gauge of supply Other properties of the product once it has been diluted for oncontrated product. The physical properties and some of the assessments on not apply to the properties of the groduct once it has been diluted for application. Acute health effects of the diluted product are likely to be much leas severe. Section 2 - Hazar(6) Identification GBS classification of Antice call toxicity: Category 1 Haracdous to the terrestrial environment: Hazardous to soil organisms Hazardous to the terrestrial environment: Hazardous to tell caquitic environment: Hazardous to tellor agaitic environment acute Category 1 Hazard Statement (s) H32 Harmful if inhaled. H33: Marmful if inhaled. H33: May cause damage to the liver from repeated oral exposure at high doses. H33: Nay cause damage to the liver from repeated oral exposure at high doses. H33: Nay cause damage to the liver from trepated oral exposure at high doses. H33: Roades acroup. H33: Nay cause damage to the liver chorace. H33: Namful to interestrial environment is strong. H33: Nay cause damage to the liver from trepated oral exposure at high doses. H33: Roades acroup. H33: Na	Section 1 - Identif	ication		
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	Print Date: 5/21/2024			



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Precautionary Statement – Response	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. 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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P310 Immediately call a POISON CENTER/doctor. P312 Call a POISON CENTER/doctor if you feel unwell. P314 Get medical advice/attention if you feel unwell. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse. P391 Collect spillage.
Precautionary	P501 Dispose of contents/container to an approved landfill.
Statement – Disnosal	

Statement – Disposal

Section 3 - Composition and Information on Ingredients

Chemical Characterization	Liquid			
Ingredients	Name	CAS	Proportion	
-	MCPB acid (present as the dimethylamine salt)	94-81-5 (acid)	375 g/L	
1		2039-46-5	25 g/L	
		5	To volume	

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 neccessary.Remove contact lenses if present and easy to do.Seek medical assistance.
First-aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically.

Section 5 - Firefighting Measures

Suitable	If involved in a fire,the product will not burn. Choose extinguishing media to suit the burning material.
Extinguishing Media	Water fog,foam,carbon dioxide or dry chemical.
Hazards from Combustion Products	May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.



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Material Safety Data Sheet

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Product Name	THISTROL® PLUS	
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.	
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 - Accide	ental Release Measures	
Spills and Disposal Personal Protection	Wear protective clothing. Clear area of unprotected personnel. Contain liquid spill and absorb with sand, soil or absorbent granules. If spill doe enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill. 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.	
Section 7 - Handli	ing and Storage	
Precautions for Safe Handling	The person mixing or applying THISTROL PLUS 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. 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 if 3L or more is applied within 24 hours.	
Conditions for safe torage, including my incompatibilities Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool a away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS Managemnet of Agrichemicals. Stores containing 100L of THISTROL PLUS require secondary containment a subject to signage and more than 100L 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.	
Section 8 - Exposi	ure Controls and Personal Protection	
Occupational Exposure Limits	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.	

Occupational	No exposure limits (WES, TEL or EEL's) have been specifically assigned for			
Exposure Limits	this product.			
(OEL)				
Appropriate	Handle in well ventilated areas, generally natural ventilation is adequate.			
Engineering	When working with the concentrate in confined spaces, it is recommended that			
Controls	forced ventilation be used to remove traces of dimethylamine vapour from the working atmosphere			
Personal Protective	When opening the container,preparing spray and using the prepared spray wear			
Equipment	safety goggles, waterproof gloves, washable hat, cotton overalls buttoned to the neck and wrist, and boots.			



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Hygiene Measures 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

Form	Liquid		
Appearance	Amber liquid.		
Odour	Slight ammonia odour.		
Decomposition Temperature	Information is not available.		
Melting Point	-5°C		
Boiling Point	>100°C (water)		
Solubility in Water	Soluble		
Specific Gravity	1.086		
pH	9.0		
Vapour Pressure	MCPA & MCPB dimethylamine salts are not volatile.		
Vapour Density (Air=1)	Information is not available.		
Odour Threshold	Information is not available.		
Volatile Component	50%		
Partition Coefficient: n-octanol/water Flash Point	Kow logP = 2.75 (pH1) (25°C) for for active ingredient MCPA. Kow logP >2.73 (pH5) for for active ingredient MCPB. Not flammable.		
Flammability	Information is not available.		
Auto-ignition Temperature	Information is not available.		
Flammable Limits - Lower	Information is not available.		
Flammable Limits - Upper	Information is not available.		
Kinematic Viscosity	Information is not available.		
Particle Characteristics	Information is not available.		
Other Information	(SL) Soluble concentrate		

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible Materials	Reaction of the concentrate or spray mix with acids will precipitate solid MCPA & MCPB and largely de-activate the product and cause blockages in spray equipment.
Possibility of Hazardous Reactions	May react violently with strong oxidising material such as chlorine. If strong alkalies such as caustic soda are added, dimethylamine vapour will be released.

Section 11 - Toxicological Information

Toxicology	MCPA:
Information	MCPA is considered to be of moderate toxicity to man. There have been very few reported acute toxic effects on users over many years. Several deaths have been recorded, but all of these have been deliberate suicide, generally using the sodium salt. MCPB: MCPB is of moderate toxicity to man.



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Acute Toxicity - Oral	LD50(rats) 962-1470mg/kg for active ingredient MCPA. LD50(male rats) 4300mg/kg for active ingredient MCPB.		
Acute Toxicity - Inhalation	LC50(4h, rats) >6.36mg/L for active ingredient MCPA. LC50(4h, rats) >1.14mg/L air for active ingredient MCPB.		
Acute Toxicity - Dermal	LD50(rats) >4000mg/kg for active ingredient MCPA. LD50(rats) >2000mg/kg for active ingredient MCPB.		
Ingestion	The concentrate is not considered a serious hazard due to moderate toxicity. However, the concentrate is considered harmful if swallowed, when classified according to Worksafe Criteria.		
Skin Corrosion/Irritation	May be harmful if in contact with the skin.		
Serious Eye Damage/Irritation	This product is corrosive and causes serious eye damage.		
Respiratory Sensitisation	May be harmful if inhaled.		
Skin Sensitisation	May cause an allergic skin reaction.		
Germ Cell Mutagenicity	Information is not available.		
Carcinogenicity	Information is not available.		
Reproductive Toxicity	Suspected of damaging fertility or unborn child.		
STOT - Single Exposure	Information is not available.		
STOT - Repeated Exposure	May cause liver damage from repeated oral exposure at high doses.		
Aspiration Hazard	Information is not available.		
Subchronic/Chronic Toxicity	Liver and kidney damage has been noted in laboratory animals but only after excessive doses.		
Other Information	The Australian Acceptable Daily Intake (ADI) for MCPA for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.1 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). The Australian Acceptable Daily Intake (ADI) for MCPB for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.1 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 - Ecolo	gical Information		
Persistence and Degradability	In soil DT50 <7d after initial lag phase for active ingredient MCPA. In soil DT50 c. 5-7d (5 soild types, pH range 6.2-7.3, o.m. 0.9-3.9%, moisture 2.6-25.9%) for active ingredient MCPA.		
Mobility	Information is not available.		
Bioaccumulative Potential	Information is not available.		
Acute Toxicity - Fish	LC50 (96hr, using MCPA salt solution) for rainbow trout is 50-560mg/L for active ingredient MCPA. LC50 (48hr) for rainbow trout is 75mg/L for active ingredient MCPB.		
Acute Toxicity - Daphnia	LC50 (48hr) >190mg/L for active ingredient MCPA.		
Acute Toxicity - Algae	EC50 for Selenastrum capricornutum >392mg/L for active ingredient MCPA.		
Acute Toxicity - Other Organisms	LD50 (oral and contact) for bees >200µg/bee for active ingredient MCPA. Active ingredient MCPB is not toxic to bees.		
G 10			

Section 13 - Disposal Considerations

Print Date: 5/21/2024



infosafe cs: 3.5.5

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Infosafe No™	3NUA1	Issue Date :May	2024	ISSUED by	NUFARMNZ
Product Name	THISTROL®	PLUS			
Product Disposal	Dispose of p landfill.	product only by using a	ccording to the labe	l, or at an	approved
Container Disposal	-	e empty container and ac Otherwise crush and bu	1 1	-	le empty
Section 14 - Tran	sport Informati	on			
Transport Information		practice not to transpo related materials and an	2	ical product	s with
UN Number					
Proper Shipping Name	ENVIRONMENTA	LLY HAZARDOUS SUBSTANCI	E, LIQUID, N.O.S	(MCPA, MCPB)	
Hazard Class	9				
Hazchem Code	2X				
Packaging Method	-				

I ackaging method	
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
IMDG EMS	F-A, S-F
Other Information	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

National and or	Registered pursuant to the ACVM Act 1997, No. P5956
International	See www.foodsafety.govt.nz for registration conditions.
Regulatory	Approved pursuant to the HSNO Act 1996, Approval Code HSR000379
Information	See www.epa.govt.nz for approval controls.
Packaging and	KEEP OUT OF REACH OF CHILDREN
Labelling	READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS	August 2020.
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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