

Infosafe No™ 3NV35	Issue Date : February 2020	ISSUED by NUFARM
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 Product Name **Thistrol Gold Selective Herbicide**

Classified as hazardous

1. Identification

GHS Product Identifier	Thistrol Gold Selective Herbicide		
Product Code	0979	NUL3324	
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)		
Address	103-105 Pipe Road Laverton North Victoria 3026 Australia		
Telephone/Fax Number	Tel: +61 3 9282-1000		
Emergency phone number	1800 033 498 (24hr Australia)		
Email	SDSANZ@nufarm.com		
Recommended use of the chemical and restrictions on use	For the post emergence control of ceratoin broadleafe weeds in clovers and grass pastures.		
Other Information	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.		

2. Hazard Identification

GHS classification of the substance/mixture	ED1 Eye Damage/Irritation: Category 1		
Signal Word (s)	DANGER		
Hazard Statement (s)	H319 Causes serious eye irritation.		
General Precautionary Statement (s)	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.		
Pictogram (s)	Corrosion, The below pictogram is a GHS Hazard symbol for workplace use only. See SECTION 14 for Dangerous Goods information.		



Precautionary statement – Prevention	P280 Wear protective gloves, clothing, eye and face protection.		
Precautionary statement – Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.		
Other Information	Poisons Schedule S6		

3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	MCPB present as dimethylamine salt	94005-98-8	300 g/L
	MCPA acid present as dimethylamine salt	2039-46-5	20 g/L
	Flumetsulam	98967-40-9	10 g/L
	Other ingredients (considered non-hazardous)		30-60%

4. First-aid measures

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Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
Ingestion	Rinse mouth and then drink plenty of water. Do not give anything by mouth to a semi-conscious or unconscious person. If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
Skin	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately.
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.
Hazards from Combustion Products	May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.
Special Protective Equipment for fire fighters	Breathable air apparatus should be worn when fighting a fire in which this product is involved.
Specific hazards arising from the chemical	Considered low risk due to water content, however upon evaporation of water the product is combustible.
Other Information	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

Spills & Disposal	Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal. On-site disposal of concentrate is not acceptable.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Clean-up Methods - Large Spillages	Place damaged containers in recovery bins (if available) and return to manufacturer. If large liquid spills occur, attempt to recover as much spilt material from sumps and banded areas, as possible, before absorbing remaining material into vermiculite or other absorbent.
Environmental Precautions	This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

7. Handling and storage

Precautions for Safe Handling	Do NOT spray in high winds. Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.
Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.
Tank Cleaning	See label for detailed information on cleaning of spray equipment.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standards have been set for this product or the active ingredients.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat,

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Hygiene Measures	elbow-length rubber gloves and face shield or goggles. See re-entry period information on the label for this product. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
Requirements Concerning Special Training	After each day's use, wash contaminated clothing and safety equipment. Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. Physical and chemical properties

Form	Liquid
Appearance	Clear, red-brown liquid
Odour	Ammonia like odour
Solubility in Water	Soluble in water.
Vapour Pressure	Negligible
Partition Coefficient: n-octanol/water	Kow Log P is -0.71 @pH 7 (MCPA acid); 1.32 @pH 7 (MCPB acid)
Flash Point	None
Flammability	Not flammable
Other Information	pKa is 3.07 for MCPA; 4.5 for MCPB

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Incompatible Materials	Reaction of the concentrate or spray mix with acids will precipitate solid MCPA and MCPB and largely de-activate the product and cause blockages in spray equipment. The addition of a strong alkali such as caustic soda will cause release of dimethylamine vapour. Dimethylamine is moderately toxic, LD50 (oral, rat) is 700 mg/kg and a TLV of 10 ppm (TWA) has been set.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Toxicology Information	No harmful effects are expected if the precautions on the label and this MSDS are followed.
Acute Toxicity - Oral	The following data is for the product: LD50 (rat) 2500 mg/kg
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >5.2 mg/l
Ingestion	Not a likely route of exposure. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. However, swallowing of large amounts may cause injury. Ingestion of the concentrate in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination.
Inhalation	The components of the product are of low volatility and no adverse effects are expected from handling the concentrate. A moderate hazard exists from inhalation of spray and care should be taken to avoid inhalation of spray mists.
Skin	Unless removed immediately, will cause irritation. Prolonged contact with the concentrate may result in absorption of MCPA and MCPB in harmful amounts.
Eye	The concentrate will cause severe irritation and possible damage unless washed off immediately.
Skin Sensitisation	Product is not a skin sensitiser.
Carcinogenicity	The weight of the evidence is that MCPA is not carcinogenic.

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Chronic Effects	Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of MCPA.
Serious eye damage/irritation	The product is a severe eye irritant.
Skin corrosion/irritation	Mild skin irritant.
Other Information	The Australian Acceptable Daily Intake (ADI) for MCPA and 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', June 2018). ADI for flumetsulam is 1 mg/kg/day, NOEL 100 mg/kg/day.

12. Ecological information

Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Acute Toxicity - Fish	LC50 (96hr) for rainbow trout is 50 mg/l for MCPA dimethylamine salt LC50 (96hr) for rainbow trout is 300 mg/l for flumetsulam LC50 (96hr) for rainbow trout is 4.3 mg/l for MCPB
Acute Toxicity - Daphnia	EC50 (48hr) for daphnia is >190 mg/l for MCPA dimethylamine salt. EC50 (48hr) for daphnia magna is 254 mg/l for flumetsulam. EC50 (48hr) for daphnia magna is 55 mg/l for MCPB.
Acute Toxicity - Algae	LC50 for algae is >392 mg/l. EC50 for algae is 11 mg/l for flumetsulam EC50 for algae is 41 mg/l for MCPB ErC50 for Myriophyllum spicatum is 0.485 mg/L(MCPB)

13. Disposal considerations

Product Disposal	On site disposal of the concentrated product is not acceptable.
Container Disposal	Do not use this container for any other purpose. Empty containers and product should not be burnt. Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

14. Transport information

Storage and Transport	FOR TRANSPORT BY ROAD AND RAIL IN AUSTRALIA ONLY: Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail when in packs of 500L or less, or in IBC's of 3000L or less (SP A001) For other shipments : UN3082 ENVIRONMENTALLY HAZARDOUS, LIQUID, N.O.S. (CONTAINS MCPB) Class 9 PG III Marine Pollutant
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15. Regulatory information

Regulatory Information	Australia: WHS regulations (2011) - Schedule 11: classification not listed. APVMA Approval no.87300/118061
Poisons Schedule	S6

16. Other Information

Date of preparation or last revision of SDS	12/02/2020 This SDS replaces version dated 01/05/2019
Contact Person/Point	Normal Hours: SDS Coordinator Phone: +61 3 9282 1000 Email : SDSANZ@nufarm.com
Revisions Highlighted	Commercial use and APVMA registration. ...End Of MSDS...

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