

Infosafe No™ 3NV0T	Issue Date : July 2017	ISSUED by NUFARM
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 Product Name **Trooper 242 Herbicide**

Classified as hazardous

1. Identification

GHS Product Identifier	Trooper 242 Herbicide
Product Code	0933
Product Type	Group I Herbicide
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 Fax: +61 3 9282-1001
Emergency phone number	1800 033 498 (24hr Australia)
Recommended use of the chemical and restrictions on use	For the control of climbing buckwheat, common sowthistle, skeleton weed, capeweed, doublegee and other broadleaf weeds in winter cereals and linseed crops as per the Directions for Use table on the label.
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	OT4 Acute Toxicity - Oral: Category 4 DT4 Acute Toxicity - Dermal: Category 4 IT4 Acute Toxicity - Inhalation: Category 4
Signal Word (s)	WARNING
Hazard Statement (s)	H302 Harmful if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled.
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)	Exclamation mark, The below pictogram is a GHS Hazard symbol for workplace use only. See SECTION 14 for Dangerous Goods information.
	
Precautionary statement – Prevention	P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves, clothing, eye and face protection. P261 Avoid breathing spray.
Precautionary statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P363 Wash contaminated clothing before reuse. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P314 Get medical advice/attention if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Other Information	Poisons Schedule S5

3. Composition/information on ingredients

Chemical Characterization	Liquid
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MCPA (present as potassium salt)	94-74-6	420 g/L
Picloram (present as potassium salt)	1918-02-1	26 g/L
Ethoxylated surfactant		<1%
Other ingredients (considered non-hazardous)		0-10 %
Water		Balance

4. First-aid measures

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.
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	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.
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.

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Tank Cleaning See label for detailed information on cleaning of spray equipment.

Other Information Always read the label and any attached leaflet before use.
Do not use on or in situations where damage to susceptible crops or plants such as cotton, tobacco, tomatoes, flowers, vines, fruit trees or other susceptible crop plants may result from direct application or drift. Do not use on land to be cultivated for growing susceptible crops within 12 months of applying. Legumes, vines, vegetables, cotton, tomatoes, ornamentals and many other plants are susceptible during both the growing and dormant phases.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Picloram (present as potassium salt)			10		
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, elbow-length PVC gloves and goggles.					
Hygiene Measures	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	Dark brown liquid
Solubility in Water	Soluble in water.
Specific Gravity	1.219 (20°C)
pH	7-8 (1% solution)
Vapour Pressure	Negligible
Partition Coefficient: n-octanol/water	Kow Log P is 0.91 MCPA; 1.9 picloram.
Flammability	Non combustible material.
Other Information	pKa is 3.07 MCPA; 2.3 picloram.

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 picloram and largely de-activate the product and cause blockages in spray equipment.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) 1876 mg/kg for MCPA acid LD50 (rat) >3500 mg/kg for picloram potassium salt
Acute Toxicity - Dermal	LD50 (rabbit) >2000 mg/kg for MCPA acid LD50 (rabbit) >2000 mg/kg for picloram potassium salt
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >6.36 mg/l for MCPA acid LC50 (rat) >1.63 mg/L for picloram potassium salt
Ingestion	Ingestion of the concentrate in relatively large amounts can result in

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Inhalation	headache, nausea, lethargy, motor weakness and incoordination. Breathing in high concentrations of vapours or aerosols of this material may cause nausea and irritation of the nose, throat and respiratory tract.
Skin	Unless removed immediately, will cause irritation. Prolonged contact with the concentrate may result in absorption of MCPA and picloram in harmful amounts.
Eye	May irritate the eyes.
Skin Sensitisation	Prolonged and repeated skin contact may result in skin sensitisation.
Carcinogenicity	The weight of the evidence is that MCPA is not carcinogenic.
Chronic Effects	Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of MCPA.
Serious eye damage/irritation	Mild eye irritant.
Skin corrosion/irritation	Mild to moderate skin irritant.
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 Health, Office of Chemical Safety, 'ADI List', December 2015). ADI for picloram is 0.07 mg/kg/day, NOEL 7 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.
Environmental Protection	Spray drift can cause damage, read the label for more information.
Acute Toxicity - Fish	LC50 (96hr) for rainbow trout is 50 mg/l for MCPA potassium salt LC50 (96hr) for rainbow trout is 26 mg/l for picloram potassium salt
Acute Toxicity - Daphnia	EC50 (48hr) for daphnia is >190 mg/l for MCPA potassium salt. EC50 (48hr) for daphnia is 63.8 mg/l for picloram potassium salt.
Acute Toxicity - Algae	LC50 for algae is >392 mg/l for MCPA potassium salt EC25 for algae is 52.6 mg/l for picloram potassium salt.
Acute Toxicity - Other Organisms	Not toxic to birds. Not toxic to bees.

13. Disposal considerations

Product Disposal	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
Container Disposal	Do not use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program. Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

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14. Transport information

Storage and Transport Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. Regulatory information

Regulatory Information Australia: WHS regulations (2011) - Schedule 11: classification not listed.

Poisons Schedule S5

Packaging & Labelling CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Other Information This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 55555.

16. Other Information

Date of preparation or last revision of SDS 12/07/2017

Contact Person/Point Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

Revisions Highlighted The SDS was reviewed. Minor changes were made to the information and product has been rebranded.
...End Of MSDS...

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