



Infosafe No™ 3NUDC

Issue Date :November 2009

ISSUED by NUFARM

CS: 1.4.21

Product Name **Trooper 242 Herbicide**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** Trooper 242 Herbicide  
**Product Code** 0578  
**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  
**Emergency Tel.** 1800 033 498 (24hr Australia)  
**Telephone/Fax Number** Tel: +61 3 9282-1000  
Fax: +61 3 9282-1001  
**Recommended 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 MSDS 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. HAZARDS IDENTIFICATION

**Hazard Classification** Classified as hazardous  
HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.  
**Risk Phrase(s)** Classified as hazardous  
R22 Harmful if swallowed.  
R38 Irritating to skin.  
R41 Risk of serious damage to eyes.  
R43 May cause sensitization by skin contact.  
**Safety Phrase(s)** S13 Keep away from food, drink and animal feeding stuffs.  
S2 Keep out of reach of children.  
S24/25 Avoid contact with skin and eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/39 Wear suitable protective clothing and eye/face protection.  
**Other Information** Poisons Schedule S5

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	MCPA (present as potassium salt)	94-74-6	420 g/L
	Picloram (present as potassium salt)	1918-02-1	26 g/L
	Ethoxylated surfactant		0-10 %
	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.



# Material Safety Data Sheet

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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** 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.

**Products**

**Special Protective Equipment for fire fighters** Breathable air apparatus should be worn when fighting a fire in which this product is involved.

**Specific Hazards** 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 bunded areas 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** 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.

**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

National Exposure Standards	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Picloram (present as potassium salt)			10		



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<b>Engineering Controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	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.
<b>Hygiene Measures</b>	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.
<b>Requirements Concerning Special Training</b>	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

<b>Form</b>	Liquid
<b>Appearance</b>	Dark brown liquid
<b>Solubility in Water</b>	Soluble in water.
<b>Specific Gravity</b>	1.219 (20°C)
<b>Vapour Pressure</b>	Negligible
<b>Octanol/Water Partition Coefficient</b>	Kow Log P is 0.91 MCPA; 1.9 picloram.
<b>Flammability</b>	Non combustibile material.
<b>Other Information</b>	pKa is 3.07 MCPA; 2.3 picloram.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Incompatible Materials</b>	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.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Skin</b>	Unless removed immediately, will cause irritation. Prolonged contact with the concentrate may result in absorption of MCPA and picloram in harmful amounts.
<b>Eye</b>	The concentrate will cause severe irritation and possible damage unless washed off immediately.
<b>Chronic Effects</b>	Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of MCPA.
<b>Carcinogenicity</b>	The weight of the evidence is that MCPA is not carcinogenic.
<b>Acute Toxicity - Oral</b>	LD50 (rat) 1876 mg/kg for MCPA acid LD50 (rat) >3500 mg/kg for picloram potassium salt
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >2000 mg/kg for MCPA acid LD50 (rabbit) >2000 mg/kg for picloram potassium salt
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >6.36 mg/l for MCPA acid LC50 (rat) >1.63 mg/L for picloram potassium salt
<b>Eye Irritation</b>	This product is a severe eye irritant. Risk of serious damage to eyes.



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<b>Skin Irritation</b>	Mild to moderate skin irritant.
<b>Skin Sensitisation</b>	Prolonged and repeated skin contact may result in skin sensitisation.
<b>Other Information</b>	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: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', December 2008). ADI for picloram is 0.07 mg/kg/day, NOEL 7 mg/kg/day.

## 12. ECOLOGICAL INFORMATION

<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
<b>Environ. Protection</b>	Spray drift can cause damage, read the label for more information.
<b>Acute Toxicity - Fish</b>	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
<b>Acute Toxicity - Daphnia</b>	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.
<b>Acute Toxicity - Algae</b>	LC50 for algae is >392 mg/l for MCPA potassium salt EC25 for algae is 52.6 mg/l for picloram potassium salt.
<b>Acute Toxicity - Other Organisms</b>	Not toxic to birds. Not toxic to bees.

## 13. DISPOSAL CONSIDERATIONS

<b>Product Disposal</b>	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®).
<b>Container Disposal</b>	Do not use this container for any other purpose. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. 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. 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. 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

<b>Storage and Transport</b>	Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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## 15. REGULATORY INFORMATION

<b>Poisons Schedule</b>	S5
<b>Packaging &amp; Labelling</b>	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Hazard Category</b>	Harmful, Irritant
<b>AICS (Australia)</b>	All of the components in this product are listed on the Australian Inventory of Chemical Substances.



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## 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS**      Revised 11/11/2009

**Contact Person/Point**      Normal Hours: Mr Volker Maier      Phone: +61 3 9282 1000  
After Hours: Shift Supervisor      Phone: 1800 033 498

**Revisions**      The MSDS was reviewed. Minor changes were made to the information.

**Highlighted**      Product is now known as Trooper 242 Herbicide.  
...End Of MSDS...

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