

Infosafe No™ 3NV0U	Issue Date : July 2017	ISSUED by NUFARM
--------------------	------------------------	------------------

 Product Name **Trooper® 75-D Herbicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	Trooper® 75-D Herbicide
<b>Product Code</b>	0929
<b>Product Type</b>	Group I Herbicide
<b>Company Name</b>	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
<b>Address</b>	103-105 Pipe Road Laverton North Victoria 3026 Australia
<b>Telephone/Fax Number</b>	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>Recommended use of the chemical and restrictions on use</b>	For the control of a wide range of annual and perennial broadleaf weeds, as specified in the Directions for Use table on the label. This is a PHENOXY HERBICIDE that can cause severe damage to susceptible crops.
<b>Other Information</b>	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

<b>GHS classification of the substance/mixture</b>	OT4 Acute Toxicity - Oral: Category 4 ED1 Eye Damage/Irritation: Category 1 SS-1 Sensitization - Skin: Category 1
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed. H318 Causes serious eye damage. H317 May cause an allergic skin reaction.
<b>General Precautionary Statement (s)</b>	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.
<b>Pictogram (s)</b>	Corrosion, Exclamation mark, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



<b>Precautionary statement – Prevention</b>	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. P272 Contaminated work clothing should not be allowed out of the workplace.
<b>Precautionary statement – Response</b>	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.
<b>Other Information</b>	Poisons Schedule S6

## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Liquid
----------------------------------	--------

Infosafe No™ 3NVOU	Issue Date : July 2017	ISSUED by NUFARM
--------------------	------------------------	------------------

 Product Name **Trooper® 75-D Herbicide**

Classified as hazardous

2,4-D (present as the tri-isopropanolamine salt)	94-75-7	300 g/L
Picloram (present as the tri-isopropanolamine salt)	1918-02-1	75 g/L
Butoxy Ethanol	111-76-2	0-10 %
Other ingredients (considered non-hazardous)		0-10 %
Water		10-30 %

#### 4. First-aid measures

<b>Inhalation</b>	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
<b>Ingestion</b>	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.
<b>Skin</b>	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately.
<b>Advice to Doctor</b>	Treat symptomatically.

#### 5. Fire-fighting measures

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

#### 6. Accidental release measures

<b>Spills &amp; Disposal</b>	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.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Clean-up Methods - Large Spillages</b>	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.
<b>Environmental Precautions</b>	This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

#### 7. Handling and storage

<b>Precautions for Safe Handling</b>	Do NOT spray in high winds. Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.
--------------------------------------	---

Infosafe No™ 3NVOU	Issue Date : July 2017	ISSUED by NUFARM
--------------------	------------------------	------------------

 Product Name **Trooper® 75-D Herbicide**

Classified as hazardous

<b>Conditions for safe storage, including any incompatibilities</b>	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.
<b>Tank Cleaning</b>	See label for detailed information on cleaning of spray equipment.
<b>Other Information</b>	Always read the label and any attached leaflet before use. Do not plant susceptible crops within 12 months of applying this product. Crops susceptible to this product include, but are not limited to: peas, lupins, lucerne, navy beans, soybeans and other legumes, cotton, fruit, hops, ornamentals, potatoes, safflowere sugarbeet, sunflower, tobacco, tomatoes, vegetables and vines.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	Safe Work Australia has set the following exposure standard for picloram : TLV (TWA) 10 mg/m <sup>3</sup> , STEL -. Safe Work Australia has set the following exposure standard for butoxy ethanol : TLV (TWA) 96.9 mg/m <sup>3</sup> , STEL 242. SK 'SK' notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.
<b>Appropriate 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>	1.182
<b>Vapour Pressure</b>	Neglible
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 1.9 for picloram; 0.3 for 2,4-D.
<b>Flammability</b>	Non combustible material.
<b>Other Information</b>	pKa is 2.3 for picloram; 2.76 for 2,4-D

## 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 2,4-D 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>Acute Toxicity - Oral</b>	LD50 (rat) 639 mg/kg for 2,4-D acid LD50 (rat) >3500 mg/kg for picloram potassium salt
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) 1600 mg/kg for 2,4-D acid LD50 (rabbit) >2000 mg/kg for picloram potassium salt
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) 1.79 mg/l for 2,4-D acid LC50 (rat) >1.63 mg/L for picloram potassium salt
<b>Ingestion</b>	Ingestion of the concentrate in relatively large amounts can result in

Infosafe No™ 3NVOU	Issue Date : July 2017	ISSUED by NUFARM
--------------------	------------------------	------------------

Product Name **Trooper® 75-D Herbicide**

Classified as hazardous

<b>Inhalation</b>	headache, nausea, lethargy, motor weakness and incoordination. 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>Skin</b>	Unless removed immediately, will cause irritation. Prolonged contact with the concentrate may result in absorption of 2,4-D and picloram in harmful amounts.
<b>Eye</b>	The concentrate will cause severe irritation and possible damage unless washed off immediately.
<b>Skin Sensitisation</b>	Prolonged and repeated skin contact may result in skin sensitisation.
<b>Carcinogenicity</b>	The weight of the evidence is that 2,4-D is not carcinogenic.
<b>Chronic Effects</b>	Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of 2,4-D.
<b>Serious eye damage/irritation</b>	This product is a severe eye irritant. Risk of serious damage to eyes.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for 2,4-D 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 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

<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
<b>Environmental Protection</b>	Spray drift can cause damage, read the label for more information.
<b>Acute Toxicity - Fish</b>	LC50 (96hr) for rainbow trout is 100 mg/l for a similar 2,4-D salt LC50 (96hr) for rainbow trout is 51 mg/l for a similar picloram salt
<b>Acute Toxicity - Daphnia</b>	EC50 (48hr) for daphnia is >190 mg/l for a similar 2,4-D salt. EC50 (48hr) for daphnia is 63.8 mg/l for a similar picloram salt.
<b>Acute Toxicity - Algae</b>	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. If recycling, replace cap and return clean containers to recycler or designated collection point. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. 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. 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

Infosafe No™ 3NV0U	Issue Date : July 2017	ISSUED by NUFARM
--------------------	------------------------	------------------

Product Name **Trooper® 75-D Herbicide**

Classified as hazardous

symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

## 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** S6

**Packaging & Labelling** POISON  
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: 62751.

## 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...

© Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.