



## MSDS OF NAADCO TRICLOPYR PICLORAM 400 Herbicide

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

|                     |  |
|---------------------|--|
| <b>Product name</b> | NAADCO TRICLOPYR PICLORAM 400 Herbicide                      |
| <b>Supplier</b>     | New Australia Agricultural Development Company Pty Limited   |
| <b>Address</b>      | Unit 1, 17 Powell Street, Killara, Sydney NSW 2071 Australia |
| <b>Telephone</b>    | +61 2 94983675, 0425328311                                   |
| <b>Fax</b>          | +61 2 94983675   |
| <b>Website</b>      | www.naadco.com.au  |

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

#### HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS

Classified as hazardous according to the criteria of NOHSC

Not Classified as Dangerous Goods for Land Transport

#### Potential Health Effects:

Irritant to eyes. Can cause lung damage if swallowed. May cause sensitisation by skin contact.

#### Risk phrases

|         |   |
|---------|---|
| R36/38: | Irritating to eyes and skin                 |
| R43:    | May cause sensitisation by skin contact     |
| R65:    | Harmful: may cause lung damage if swallowed |
| R38:    | Irritating to skin                          |

#### Safety phrases

|         |   |
|---------|---|
| S2:     | Keep out of the reach of children.  |
| S20/21: | When using the do not eat, drink or smoke.  |
| S24/25: | Avoid contact with skin and eyes.   |
| S23:    | Do not breathe spray.   |
| S62:    | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredients                                      | CAS Number   | Concentration (% w/v) |
|--|--------------|-----------------------|
| Triclopyr present as the butoxyethyl ester       | [64700-56-7] | 30                    |
| Picloram   | [1918-18-1]  | 10                    |
| Diethylene glycol monoethyl ether                | [111-90-0]   | <10                   |
| Other ingredients determined not to be hazardous | /            | to 100                |

### 4. FIRST AID MEASURES



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**Consult the Poisons Information Centre (131126) or a doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur seek medical attention immediately.**

### FIRST AID

**Ingestion:** Do not induce vomiting unless told to do so by the Poisons Information Centre or Doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**Eye contact:** If in eyes, hold open and flood with water for at least fifteen minutes. Remove contact lenses if present after the first five minutes and then continue rinsing the eyes.

**Skin contact:** Remove contaminated clothing. Rinse skin immediately with plenty of water, and soap if available.

**Inhalation:** If inhaled move person to fresh air.

**Advice to Doctor:** There is no specific antidote available. Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**COMBUSTIBLE:** C1

**FLAMMABLE LIMITS:** LFL: Not available  
UFL: Not available

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, foam, and/or water fog.

**FIRE AND EXPLOSION HAZARDS:** Highly toxic and irritating fumes are released in fire situations including oxides of nitrogen, carbon, and sulphur. Hydrogen chloride and cyanide compounds may be formed.

**FIRE-FIGHTING EQUIPMENT:** When fighting a major fire wear self-contained breathing apparatus and protective equipment.

**HAZCHEM:** 2X

## 6. ACCIDENTAL RELEASE MEASURES

### ACTION TO TAKE FOR

**SPILLS/LEAKS:**

- (1) Keep all bystanders away.
- (2) Wear full length clothing and PVC gloves.
- (3) Reposition any leaking containers so as to minimise further leakage.
- (4) Dam and absorb spill with an absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed spill into drums.
- (6) Disposal of the absorbed material will depend upon the extent of the spill.
  - For quantities up to 50L of product bury in a secure landfill site.
  - For quantities greater than 50L seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established.
- (7) Decontaminate the spill area with detergent and water and rinse with the



smallest volume of water practicable.

**Small spills/leaks:**

In case of spillage it is important to take all steps necessary to:

- Avoid eye and skin contact.
- Avoid contamination of waterways.

## 7. HANDLING AND STORAGE

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

#### Precautions for

#### Safe Handling:

Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. When preparing spray wear:

- cotton overalls buttoned to the neck and wrists
- a washable hat
- elbow-length PVC gloves
- a face shield or goggles.

If product is in eyes, wash it out immediately with water.

Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

#### Conditions for

#### Safe Storage:

Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight. Triple, or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If not available, bury the containers below 500 mm 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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

**EXPOSURE GUIDELINES:** Picloram Acid: HOHSC TWA is 10 mg/m<sup>3</sup>.

**Engineering controls:** No special requirements. Product is used outdoors.



#### Personal protection:

#### EYE/FACE PROTECTION:

Use chemical goggles. If exposure causes eye discomfort, use a full-face respirator.



#### SKIN PROTECTION:

When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as faceshield, boots, apron, or full-body suit will depend on the task. Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: polyethylene, Viton, Polyvinyl chloride (PVC or vinyl), styrene/butadiene rubber, ethyl vinyl alcohol laminate (EVAL), butyl rubber, chlorinated polyethylene, Neoprene, natural rubber latex), nitrile/butadiene rubber (nitrile or NBR). Avoid gloves made of polyvinyl alcohol (PVA).

#### RESPIRATORY PROTECTION:

Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: organic vapor cartridge with a particulate pre-filter.

#### APPLICATORS AND ALL OTHER HANDLERS:

Refer to the product label for personal protective clothing and equipment.

If product is in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

|                             |  |
|-----------------------------|--|
| <b>Appearance:</b>          | Clear brown liquid   |
| <b>Physical state:</b>      | Liquid   |
| <b>Boiling Point:</b>       | > 150°C  |
| <b>Solubility in Water:</b> | Emulsifies in water.   |
| <b>Specific Gravity:</b>    | 1.12   |
| <b>Vapour Pressure:</b>     | 3.6 x 10 <sup>-6</sup> mgHg (triclopyr BE)<br>6.15 x 10 <sup>-7</sup> mgHg (picloram acid) |
| <b>Volatile Component:</b>  | No data available.   |
| <b>Flash Point:</b>         | 82°C.  |
| <b>Combustibility:</b>      | Combustible C1   |

### 10. STABILITY AND REACTIVITY

#### Chemical stability:

Combustible. Stable under normal storage conditions.

#### Incompatible materials:

Avoid oxidizing materials and strong acids.

#### Hazardous decomposition products:

Hydrogen chloride, cyanide compounds and/or nitrogen, carbon and sulphur may be formed if product involved in fire.

#### Hazardous Reactions:

Not applicable.

### 11. TOXICOLOGICAL INFORMATION



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This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

|                         |  |
|-------------------------|--|
| <b>Oral toxicity:</b>   | Low toxicity if swallowed. LD <sub>50</sub> (rat) > 2000mg/kg .  |
| <b>Dermal toxicity:</b> | Low toxicity. LD <sub>50</sub> (rabbit) > 2000mg/kg .  |
| <b>Skin irritation:</b> | Prolonged contact with the concentrate may cause irritation.   |
| <b>Inhalation:</b>      | Low toxicity.  |
| <b>Eye irritation:</b>  | The concentrate may cause moderate irritation to the eyes.   |
| <b>Sensitisation:</b>   | Prolonged or frequent repeated skin contact may cause allergic skin reactions in some individuals.   |
| <b>Chronic:</b>         | Picloram and Triclopyr was not mutagenic, carcinogenic or teratogenic (at less than maternally toxic doses) and did not show reproductive effects in animal studies (at less than maternally toxic doses). |

### 12. ECOLOGICAL AND ECOTOXICOLOGICAL INFORMATION

|                                       |   |
|---------------------------------------|---|
| <b>Ecotoxicity:</b>                   | Picloram is moderately toxic to aquatic organisms.<br>LC <sub>50</sub> (96 h) 5.5 mg/L rainbow trout<br>LC <sub>50</sub> 34.4 mg/L daphnia<br>EC <sub>50</sub> 36.9 mg/L Selenastrum<br>Triclopyr is of moderate toxicity to aquatic organisms<br>LC <sub>50</sub> (96 h) 117 mg/L rainbow trout<br>LC <sub>50</sub> (48 h) 133 mg/L daphnia<br>EC <sub>50</sub> (5 days) 45 mg/L Selenastrum<br>Picloram is practically non-toxic to birds<br>LD <sub>50</sub> > 2000 mg/kg chicks<br>Triclopyr is of low toxicity to birds<br>LD <sub>50</sub> 1698 mg/kg Mallard ducks |
| <b>Persistence and Degradability:</b> | Picloram is quickly degraded by light and more slowly in soil with half-lives of 30 to 90 days.   |
| <b>Mobility:</b>                      | Picloram has a high potential for mobility in soil.   |
| <b>Bioaccumulative Potential:</b>     | Picloram has a moderate potential for bioaccumulation.<br>Triclopyr has a moderate potential for bioaccumulation.   |

### 13. DISPOSAL CONSIDERATIONS

|  |   |
|--|---|
| <b>Disposal method and Containers:</b> | Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight. Triple, or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If not available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose, |
|--|---|



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clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt.

### 14. TRANSPORT INFORMATION

**ROAD AND RAIL TRANSPORT:** Not a dangerous good in Australia.

**AIR AND SEA TRANSPORT:** Classified as dangerous goods for transport by air and sea.

**UN No:** 3082

**Class:** 9

**Packing group:** III

**SHIPPING NAME:** Environmentally Hazardous Substance, Solid, N.O.S. (picloram and triclopyr)

### 15. REGULATORY INFORMATION

Registered according to the Agricultural Chemicals Act, APVMA Approval Number 88080.

**Poisons Schedule (SUSDP):** Schedule 6

### 16. OTHER INFORMATION

Version 1.0

Revision Date: 2021.10.01

The information contained in this MSDS is provided in good faith and is believed to be correct and the date hereof. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

Please read all labels carefully before using product.