



Infosafe No™ 3NU5R      Issue Date :February 2010      ISSUED by NUFARM      CS: 1.4.21

Product Name **ARAMO® HERBICIDE**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** ARAMO® HERBICIDE  
**Product Code** 0097  
**Product Type** Group A 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 certain grass weeds in canola, chickpeas, faba beans, field peas, lentils, lupins, subclover and vetch, 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  
R36 Irritating to eyes.  
R38 Irritating to skin.  
R40 Limited evidence of a carcinogenic effect.  
R62 Possible risk of impaired fertility.  
R63 Possible risk of harm to the unborn child.  
R65 Harmful: may cause lung damage if swallowed.  
**Safety Phrase(s)** S13 Keep away from food, drink and animal feeding stuffs.  
S2 Keep out of reach of children.  
S37/39 Wear suitable gloves and eye/face protection.  
S46 If swallowed, seek medical advice immediately and show this container or label.  
**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>
	Tepaloxymid	149979-41-9	200 g/L
	Nonoxynol	9016-45-9	0-10 %
	Liquid Hydrocarbons	64742-94-5	719 g/L
	Other ingredients (considered non-hazardous)		0-10 %

## 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.  
Obtain medical advice.  
**Skin** Wash affected areas thoroughly with soap and water.  
Remove contaminated clothing and launder before re-use.

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<b>Eye</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
<b>First Aid Facilities</b>	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
<b>Advice to Doctor</b>	Treat symptomatically. If vomiting occurs, solvent present may cause pulmonary pneumonitis.

## 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Combustion Products</b>	Although material is not flammable, the concentrate is combustible. If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and possibly hydrogen chloride or phosgene.
<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>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. On-site disposal of concentrate is not acceptable.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<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 contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers. Spray drift can cause damage. Do not apply within 5m upwind of sensitive native grasslands.
<b>Conditions for Safe Storage</b>	Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.
<b>Tank Cleaning</b>	See label for detailed information on cleaning/decontaminating of spray equipment.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards</b>	The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m <sup>3</sup> ; 15ppm TWA, as total hydrocarbon.
<b>Engineering Controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, nitrile or elbow-length PVC gloves and face shield or goggles. Re-entry period: Do not enter treated area until spray has dried.
<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 yellow clear liquid.

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<b>Odour</b>	Moderate aromatic odour.
<b>Solubility in Water</b>	Forms an emulsion in water.
<b>Specific Gravity</b>	1.03 g/mL
<b>pH Value</b>	3.9
<b>Vapour Density (Air=1)</b>	2.7 x 10 <sup>-2</sup> mPa @ 25°C for tepraloxymid
<b>Octanol/Water Partition Coefficient</b>	Kow Log P is 2.44 (pH4); 0.20 (pH7); -1.15 (pH9)
<b>Flash Point</b>	93°C
<b>Flammability</b>	Combustible liquid C1.
<b>Other Information</b>	pKa is 4.58

## 10. STABILITY AND REACTIVITY

**Hazardous Reactions** Keep away from strong oxidising agents.

**Hazardous Polymerization** Hazardous polymerisation is not possible.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this MSDS are followed.
<b>Inhalation</b>	High vapour concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects.
<b>Ingestion</b>	Low toxicity. However, swallowing large amounts of concentrate may cause nausea and vomiting. If aspirated into the lung, e.g. from vomiting, the presence of solvent may result in chemical pneumonitis or other lung damage.
<b>Skin</b>	Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.
<b>Eye</b>	Will irritate the eyes.
<b>Chronic Effects</b>	Chronic Overexposure: Weight loss and damage to liver and kidneys may be expected if exposure is excessive.
<b>Reproductive Toxicity</b>	Evidence from animal studies suggests the potential for developmental toxicity on repeated or prolonged exposure.
<b>Mutagenicity</b>	Data indicates no mutagenic effects.
<b>Carcinogenicity</b>	Limited evidence of a carcinogenic effect.
<b>Acute Toxicity - Oral</b>	LD50 (rat) 2000 - 3000 mg/kg for the formulated product
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >4000 mg/kg for the formulated product
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) 5.1 mg/l for tepraloxymid
<b>Eye Irritation</b>	The product is an eye irritant.
<b>Skin Irritation</b>	The product is a skin irritant.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for tepraloxymid for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 5 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).

## 12. ECOLOGICAL INFORMATION

**Environ. Protection** Spray drift can cause damage, read the label for more information.





# Material Safety Data Sheet

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**Other Information**

11 - reproductive toxicity and carcinogenicity information; and  
13 - container disposal.  
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...End Of MSDS...

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