

Infosafe No™ 3NUZ3	Issue Date : June 2017	ISSUED by NUFARM
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 Product Name **EPTAM Selective Pre-Emergent Herbicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	EPTAM Selective Pre-Emergent Herbicide
<b>Product Code</b>	0370
<b>Product Type</b>	Group J 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 pre-emergence control of certain grasses and broadleaf weeds as a pre-plant application in crops as per the Directions for Use table on the label.
<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 AH1 Aspiration Hazard: Category 1
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed. H318 Causes serious eye damage. H304 May be fatal if swallowed and enters airways.
<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, Health hazard, 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.
<b>Precautionary statement – Response</b>	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331 Do NOT induce vomiting. 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.
<b>Other Information</b>	Poisons Schedule S6

## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	EPTC	759-94-4	720 g/L
	Surfactants		0-10 %
	Kerosene	64742-82-1	10-30 %

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## 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 thoroughly with water. 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>	Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water. If irritation persists, seek medical advice.
<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.
<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>	Avoid giving alcohol - may cause vomiting and shock. Probable mucosal damage may contraindicate the use of gastric lavage. In case of over exposure, check for cholinesterase inhibition and treat accordingly.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion Products</b>	Although material is not flammable, the concentrate is combustible. If involved in a major fire, could evolve oxides of carbon, nitrogen or sulphur.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
<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. Dispose of at a landfill in accordance with local regulations.
<b>Clean-up Methods - Large Spillages</b>	Place damaged containers in recovery bins (if available) and return to manufacturer.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	For personal protective equipment (PPE) and hygiene advice, refer Section 8.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in the closed, original container in a dry, well ventilated area out of direct sunlight. Do not store near oxidisers.
<b>Tank Cleaning</b>	See label for detailed information on cleaning of spray equipment.
<b>Unsuitable Materials</b>	Do not tank mix this product with insecticides or fungicides.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No biological exposure limit allocated. No exposure standard for this product has been set, however, an exposure standard has been recommended by the manufacturer for EPTC technical at 0.3 mg/m <sup>3</sup> . The manufacturer has recommended the following exposure standard for the
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<b>Appropriate engineering controls</b>	solvent: TLV (TWA) 350 mg/m <sup>3</sup> , STEL -. Handle in well ventilated areas, generally natural ventilation is adequate. In confined spaces the concentration of EPTC in air can readily exceed the maximum allowable concentration for workplace air. Forced ventilation and good handling practices are necessary for safe operation. If it is impossible to provide forced ventilation in confined spaces, wear suitable breathing protection, preferably SCBA.
<b>Respiratory Protection</b>	Do not inhale spray mist.
<b>Eye Protection</b>	Wear a faceshield or chemical goggles.
<b>Personal Protective Equipment</b>	It is good practice to wear suitable personal protective equipment (PPE). 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.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Amber coloured liquid
<b>Odour</b>	Hydrocarbon odour.
<b>Solubility in Water</b>	Disperses in water. Not soluble.
<b>Specific Gravity</b>	0.99
<b>Vapour Pressure</b>	4,500 mPa @ 25°C for EPTC
<b>Vapour Density (Air=1)</b>	>1
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 3.2 for EPTC
<b>Surface Tension</b>	31.8 mN/m
<b>Flash Point</b>	67.5°C
<b>Flammability</b>	Combustible Liquid (GHS). Combustible liquid C1. (does not sustain combustion) AS1940.
<b>Kinematic Viscosity</b>	2.7 x 10 <sup>-6</sup> m <sup>2</sup> /sec

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Keep away from strong oxidising agents.
<b>Hazardous Polymerization</b>	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>Acute Toxicity - Oral</b>	LD50 (rat) 916 mg/kg for EPTC
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >2000 mg/kg for EPTC
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) 3.8 mg/l In confined spaces, Eptam vapour may approach this concentration over a prolonged period.
<b>Ingestion</b>	The concentrate is harmful if swallowed. If aspirated into the lung, e.g. from vomiting, the presence of kerosene may result in pulmonay oedema. Possible symptoms of exposure include: nausea, vomiting and central nervous system depression.

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<b>Inhalation</b>	Consumption of alcohol increases the toxic effects. Breathing vapour can result in headaches, dizziness and possible nausea. Breathing in high concentrations of vapour can produce central nervous system depression, which can lead to loss of coordination, impaired judgement and if exposure is prolonged, unconsciousness.
<b>Skin</b>	May irritate the skin. Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.
<b>Eye</b>	The concentrate may cause irritation of the eyes.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Chronic Effects</b>	No information available.
<b>Serious eye damage/irritation</b>	Mild eye irritant.
<b>Skin corrosion/irritation</b>	Mild skin irritant.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for EPTC for a human is 0.09 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 9 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', March 2016).

## 12. Ecological information

<b>Persistence and degradability</b>	Average field half life of EPTC is ~40 days. Loss from soil is principally by microbial degradation. Not readily biodegradable.
<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product.
<b>Environmental Protection</b>	Spray drift can cause damage, read the label for more information.
<b>Acute Toxicity - Fish</b>	The following is data for the ingredient, EPTC. LC50 (96hr) for rainbow trout is 19 mg/l. LC50 (96hr) for bluegill sunfish is 14 mg/l.
<b>Acute Toxicity - Algae</b>	EC50 (72hr) for Pseudokirchneriella subcapitata is 5.46 mg/l.
<b>Acute Toxicity - Other Organisms</b>	Bees: Toxic to bees. LD50 11 µg/bee.

## 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 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.

## 14. Transport information

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**Storage and Transport** Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

**IMDG UN No** For bulk shipments as Class 9, use UN 3082, HazChem code 2Z.  
3082

**IMDG Description** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains EPTC)

**IMDG Hazard Class** Class 9

**IMDG Marine pollutant** Marine Pollutant

## 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: 48771.

## 16. Other Information

**Date of preparation or last revision of SDS** 28/06/2017

**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.

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