

# SAFETY DATA SHEET



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**Emergency Contact:**  
**1800 033 111**

## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** **eChem Triclopyr 600 Herbicide**

**Full Product Name:** eChem Triclopyr 600 Herbicide.  
**Other Names:** Triclopyr. Group I Herbicide.  
**Use:** An agricultural Herbicide for control of woody and broadleaf weeds.  
**Company:** eChem (Australia) Pty Ltd.  
**Address:** Level 4, Lantos Place, 80 Stamford Road, Indooroopilly, Qld, 4068.  
**ACN/ABN:** 089 133 095.  
**Telephone Number:** 1300 781 649 **Fax Number:** 1300 781 650  
**Emergency Contact:** 1800 033 111

## SECTION 2 HAZARDS IDENTIFICATION

**Classified as hazardous according to criteria of Safe Work Australia.  
Not classified as a Dangerous Good according to the ADG Code.  
Combustible Liquid (C1).**

**GHS classification of the substance/mixture**  
Acute Toxicity – Oral: Category 4.

**Signal Word:** WARNING.

**Hazard statements:**  
H302 Harmful if swallowed.

**Precautionary Statements:**  
*Prevention:*

- P264 Wash hands, arms and face thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.

*Response:*  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if feel unwell.  
P330 Rinse mouth.

**Disposal:**  
P501 Dispose of contents/container in accordance with national regulations.

**Pictograms:**



**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients:**

<i>CHEMICAL</i>	<i>CAS NUMBER</i>	<i>PROPORTION</i>
Triclopyr butoxyethyl ester	64700-56-7	600 g/L
Other ingredients determined not to be hazardous		Balance

**SECTION 4 FIRST AID MEASURES****FIRST AID**

**Ingestion:** If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 13 11 26). If swallowed, do not induce vomiting. Rinse any residual product from mouth and lips. Give water to drink and seek medical help.

**Eye contact:** Hold eyes open and flood with clean water until chemical is removed. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. If irritation occurs and persists see a doctor.

**Skin contact:** Remove contaminated clothing and launder before re-use. Wash skin with soap and water. If irritation occurs and persists see a doctor.

**Inhalation:** Remove to fresh air and observe until recovered. Seek medical advice if effects persist.

**Advice to Doctor:** Treat symptomatically.

**SECTION 5 FIRE FIGHTING MEASURES**

**Specific Hazard:** Product is a combustible liquid. Flash point approximately > 95°C. Eruption of containers is likely if confined at high temperatures. Intact containers exposed to excessive heat should be cooled with water to reduce drum pressure.

**Extinguishing media:** Use carbon dioxide, dry chemical or foam. If no alternative use water fog and contain all run off. If containers are ruptured contain all runoff.

**Hazards from combustion products:** On burning will produce toxic and noxious vapours, including hydrogen chloride, hydrogen cyanide and oxides of carbon and nitrogen can be expected.

**Precautions for fire-fighters and special protective equipment:** Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self contained breathing apparatus. Do not breathe smoke or vapours generated. Evacuate personnel to a safe area.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Emergency procedures:** Isolate and post spill area. Keep out unprotected persons and animals. Wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow-length rubber gloves. Large spills should be dyked. Absorb spilled material with absorbent material such as sand, clay or cat litter. Vacuum, shovel or pump spilled material into an approved container and dispose of waste as indicated in section 13 or according to the Australian Standard 2507 - Storage and Handling of Pesticides. Keep material out of streams and sewers.

**Material and methods for containment and cleanup procedures:** To clean spill area, tools and equipment, wash with a solution of soap, water and acetic acid/vinegar. Follow this with a neutralisation step of washing the area with a bleach or caustic soda ash solution. Finally, wash with a strong soap and water solution. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected.

Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

**SECTION 7 HANDLING AND STORAGE**

**Precautions for safe Handling:** No smoking, eating or drinking should be allowed where material is used or stored. Poisonous if swallowed. May irritate the eyes and skin.

**SECTION 7 HANDLING AND STORAGE (Continued)**

Avoid contact with the eyes and skin. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow-length rubber gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

**Conditions for safe Storage:** Store in the closed, original container in a well ventilated area away from children, animals, food, feedstuffs, seed and fertilisers. Do not store for prolonged periods in direct sunlight. This product is classified as a C1 (Combustible Liquid) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to state regulations for storage and transport requirements. Do not store or use near naked flame, or heat sources. Do not cut or weld container. This product is a Schedule 6 Poison (S6) and must be stored, transported and sold in accordance with the relevant Health Department regulations. Not classified as a Dangerous Good by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION****National Exposure Standards:**

No exposure standard for bifenthrin has been assigned by Safe Work Australia to this material.

**Biological Limit Values:**

No biological limit allocated.

**Engineering controls:**

Keep containers closed when not in use. No special engineering controls are required, however make sure that the work environment remains clean and that vapours and mists are minimised.

**Personal Protective equipment (PPE):**

General: When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow-length rubber gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

Personal Hygiene: Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Amber liquid.
<b>Odour:</b>	Solvent odour.
<b>Boiling point:</b>	No data available.
<b>Freezing point:</b>	No data available.
<b>Specific Gravity:</b>	Approximately 1.2.
<b>Solubility in Water:</b>	Emulsifies in water.
<b>pH:</b>	No data available.
<b>Flammability:</b>	Combustible liquid (C1).
<b>Flashpoint (°C):</b>	> 95°C.
<b>Poisons Schedule:</b>	This product is a schedule 6 (S6) poison.
<b>Formulation type:</b>	Emulsifiable Concentrate.

**SECTION 10 STABILITY AND REACTIVITY**

**Chemical Stability:** Product is considered stable for a period of at least 2 years after manufacture.

**Conditions to avoid:** Do not store for prolonged periods in direct sunlight. Store away from sources of ignition. Avoid alkaline materials.

**Incompatible materials:** Incompatible with strong oxidizing agents, strong acids and strong bases.

**Hazardous Decomposition Products:** On burning will emit toxic fumes of carbon monoxide, carbon dioxide, hydrogen chloride, chlorine, fluorine and hydrogen fluoride etc.

**Hazardous Reactions:** Does not polymerise.

**SECTION 11 TOXICOLOGICAL INFORMATION**

No specific data is available for this product as no toxicity tests have been conducted on this product. Information presented is our best judgement based on similar products and/or individual components. As with all products for which limited data is available, caution must be exercised through the use of protective equipment and handling procedures to minimise exposure.

**Potential Health Effects:****ACUTE EFFECTS**

**Swallowed:** Acute Oral LD<sub>50</sub> (rat) = 803 mg/kg (triclopyr butoxyethyl ester). Harmful if swallowed.

**Eye:** May irritate the eyes.

**Skin:** This product has a low dermal toxicity. The dermal LD<sub>50</sub> (rabbit) > 2000 mg/kg (triclopyr butoxyethyl ester).

**Inhaled:** Acute inhalation LC<sub>50</sub> = 4.8 mg/L/4 hour (triclopyr butoxyethyl ester).

**Long Term Exposure:** No data available on this formulation.

**Systemic (Other Target Organ) Effects:** For the active ingredient, in animals, effects have been reported on the following organs: Blood, kidney, liver.

**Cancer Information:** The active ingredient (triclopyr) did not cause cancer in laboratory animals.

**Teratology (Birth Defects):** Triclopyr did not cause birth defects in laboratory animals. However triclopyr has been toxic to the foetus in laboratory animals at doses toxic to the mother.

**Reproductive Effects:** In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

**SECTION 12 ECOLOGICAL INFORMATION**

**Environmental Toxicology:** No data is available on this product. Based largely or completely on information for the active ingredient, Fish LC<sub>50</sub> = 0.36 mg/L in the most sensitive species tested. Algae 24 hour EC<sub>50</sub> = 0.1 mg/L in the most sensitive species tested. Bird acute LD<sub>50</sub> = 735 mg/kg in the most sensitive species tested.

**Environmental Fate:** Triclopyr butoxyethyl ester is rapidly hydrolysed to triclopyr acid in soil and water. Based largely or completely on information for the active ingredient, the bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Measured log octanol/water partition coefficient (Log Pow) is 4.09. Log air/water partition coefficient (Log Kaw) is - 4.0. Biodegradation under aerobic static laboratory conditions is moderate (BOD20 or BOD28/ThOD between 10 and 40%).

**SECTION 13 DISPOSAL CONSIDERATIONS****Spills and Disposal:****1) After intended use - containers:**

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 an approved waste management facility is not available bury the empty packaging 500 mm 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. DO NOT burn empty containers or product.

**2) After spill or accident**

Keep material out of streams and sewers. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities. In rural areas contact ChemClear <http://www.chemclear.com.au> for help with collection of unwanted rural chemicals.

**SECTION 14 TRANSPORT INFORMATION**

**Transport:** This product is exempt from classification as a Dangerous Good in packs less than 3,000 kg or litres under the Australian Code for the Transport of Dangerous Goods by Road and Rail. For bulk shipments this product is a class 9, UN 3082. (See special provision AU01).

**Marine and Air Transport:** This product is a Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA). If transporting by sea or air the following Dangerous Goods Classification applies:- UN 3082, Class 9 (Miscellaneous Dangerous Goods), Packing Group III, Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 50% Diafenthuron).

**SECTION 15 REGULATORY INFORMATION**

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a schedule 6 poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 69547.

This product is classified as a Hazardous Substance under the criteria of Safe Work Australia. Xn: Harmful.

This product is not classified as a Dangerous Good according to the ADG Code for packs less than 3000 litres (SP AU01) (7<sup>th</sup> Ed).

*Requirements concerning special training:*

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.

**SECTION 16 OTHER INFORMATION**

Issue Date: 16 February 2014. Valid for 5 years. (First issue).

Key to abbreviations and acronyms used in this SDS:

ADG Code: Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail).

Ataxia: Inability to control the coordinate movements of the muscles.

Bradycardia: Is a resting heart rate of under 60 beats per minute (adults).

Carcinogen: An agent which is responsible for the formation of a cancer.

Genotoxic: Capable of causing damage to genetic material, such as DNA.

Mutagenic: Able to produce a mutation (a change in the genetic material of cells).

Neurotoxicity: An adverse change in the structure or function of the nervous system.

Oedema: Accumulation of fluid in tissues.

PPE: Personal protective equipment.

Teratogen: An agent capable of causing abnormalities in a developing foetus, that is causing birth defects.

TWA: The Time Weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life.

Safe Work Australia: Formally known as Australian Safety & Compensation Council (ASCC) which was formally known as the National Occupational Health & Safety Commission (NOHSC).

**References**

1. "Search Hazardous Substances". Safe Work Australia HSIS website. (2014).
2. "Approved Criteria for Classifying Hazardous Substances" 3<sup>rd</sup> Ed. NOHSC Australia. [NOHSC:1008 (2004)]. October 2004.

*This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS 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.*

*If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. End SDS.*