



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

MATERIAL SAFETY DATA SHEET

Date of Issue: 1 December 2016

1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CAMPBELL POACHEK TURF HERBICIDE
Other Names: Dipotassium salt of endothal
Chemical Group: Not specified
CAS No.:
Recommended Use: Herbicide for use on recreational turf.
Supplier Details: Colin Campbell (Chemicals) Pty Ltd ABN 29 000 045 590
5 Blackfriar Place
Wetherill Park NSW 2164
Telephone: (02) 9725 2544
Fax: (02) 9604 7768
Email: cccsyd@campbellchemicals.com.au
Website: www.campbellchemicals.com.au
Contact: Product Development Manager – (02) 9725 2544
Emergency Telephone Number: 13 11 26 (Poisons Information Centre)

2) HAZARDS IDENTIFICATION

GHS classification: Acute toxicity dermal : Category 4
Acute toxicity inhalation: Category 1/2

GHS Signal Words: DANGER

Hazard Statements : H312 : Harmful in contact with skin
H332 : Fatal if inhaled

General Precautionary Statements : 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.

Pictograms :



Precautionary statements Prevention: P260 : Do not breathe fumes, mists, vapours or spray.
P261 : Avoid breathing fumes, mists, vapours or spray.
P262 : Do not get in eyes, on skin, or on clothing.



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P264 : Wash contacted areas thoroughly after handling.
P270 : Do not eat, drink or smoke when using this product.
P271 : Use only outdoors or in a well ventilated area.
P281 : Use personal protective equipment as required.
P284 : Wear respiratory protection.

Precautionary statements

Response:

P310 : Immediately call a Poisons Information Centre or doctor.
P361 : Remove contaminated clothing immediately.
P363 : Wash contaminated clothing before reuse.
P301 + P310 : IF SWALLOWED : Immediately call a Poisons Information Centre or doctor
P301 + P312 : IF SWALLOWED : Call a Poisons Information Centre or doctor if you feel unwell.
P301 + P330 + P331 : IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.
P302 + P352 : IF ON SKIN : Wash with plenty of soap and water.
P304 + P340 : IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P370 + P378 Not combustible. Use extinguishing media suited to burning materials.

Storage :

P405 : Store locked up.
P410 : Protect from sunlight.
P403 + P233 : Store in a well-ventilated place. Keep container tightly closed

Disposal:

P501 Dispose of contents and container as specified on the registered label.

Other information :

Dangerous goods.
Hazardous substance.

3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Endothal	2164-07-0	175g/L
Other ingredients	Non hazardous	60-100%

4) FIRST AID MEASURES

**If poisoning occurs, move out of dangerous area immediately contact a doctor or Poison Information Centre (Ph: 13 11 26) and follow the advice given.
Show this Material Safety Data Sheet to the doctor.**

If inhaled:

If inhalation occurs contact a Poisons Information Centre, or call a doctor at once. Urgent hospital treatment is likely to be needed. Remove source of contamination or move victim to fresh air and keep at rest. DO NOT allow victim to move about unnecessarily. Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.

In case of skin

Wash gently and thoroughly affected areas with mild soap and plenty of water



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contact:	for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard.
In case of eye contact:	No effects expected. If irritation does occur, check and remove any contact lenses. Protect unharmed eye. Rinse eyes immediately with clean water for at least 5 minutes. Keep eye wide open while rinsing. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.
If swallowed:	If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.
First Aid facilities	Ensure eye wash and safety shower are available.
Medical Attention:	Symptoms may be delayed. The first aid procedure should be established in consultation with a doctor responsible for industrial medicine.

5) FIRE FIGHTING MEASURES

Extinguishing media	Not combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazard from combustion products	The major hazard in fires is usually inhalation of heated toxic or oxygen deficient (or both), fire gases. There is little risk of explosion from this product if commercial quantities are involved in a fire.
Precautions for fighting fires	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away. If it can be done safely remove intact containers from the fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire residues and contaminated fire extinguishing water in accordance with local regulations. Do not release contaminated water into the environment.
Hazchem Code	2X

6) ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled material or contaminated surfaces. Do not smoke, eat or drink during the clean up process. Wear personal protective clothing and equipment as detailed in Section 8 PERSONAL PROTECTION. Keep people and animals away. Ensure adequate ventilation. Contain spill and absorb with earth, sand, clay or other absorbent material. Prevent spilled material from entering drains or watercourses. Collect and store in properly labelled drums for safe disposal. Clean floor with a damp cloth and place it in the drum. Seal drums and label ready for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses etc is unavoidable warn the local water authority.



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7) HANDLING AND STORAGE

Handling Keep out of reach of children. Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale spray mist. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.

Storage Store in the closed original container in a cool well ventilated area. Do not store for prolonged periods in direct sunlight. Store in a locked room away from children, animals, food, animal feed, seed and fertilisers.

8) EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards	TWA (mg/m ³)	STEL (mg/m ³)
	Not set	Not set

Exposure standard – **Time Weighted Average (TWA)** means the average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day working week.

Short Term Exposure Limit (STEL) means the exposure level that may be equalled (but should not be exceeded for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL.

Biological Limit Values None allocated

Engineering Controls Control process conditions to avoid contact. Use in a well ventilated area only. If natural ventilation is inadequate, use of a fan is suggested.

Personal Protective Equipment

Eyes: Protective glasses or safety goggles. Eye wash bottle with pure water.

Clothing: Impervious overalls buttoned to the neck and wrists and a washable hat.

Gloves: Polyvinyl alcohol or nitrile-butyl-rubber gloves. Before removing gloves clean them with soap and water.

Respiratory: If inhalation is likely an AS/NZS 1715/1716 approved respirator should be worn.

9) PHYSICAL AND CHEMICALS PROPERTIES

Appearance: Yellow-brown translucent liquid

Odour: Mild chlorine type odour..

Vapour pressure: 2.37 kPa at 20°C (water vapour pressure)

Relative vapour density: Not available

Evaporation rate: As for water



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Boiling point:	About 100°C at 100 kPa
Freezing/Melting point:	Below 0°C
pH:	7.1
Solubility:	Completely soluble in water.
Specific gravity:	1.13
Flash point:	No data
Flammability (explosive) limit:	Not available
Auto ignition temperature:	No data available.
Partition coefficient (octanol/water):	No data available.
Viscosity:	No data available
Oxidising properties:	No data available.

10) STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use and storage.
Conditions to avoid:	Protect this product from light. Store in the closed original container in a dry, well-ventilated area out of direct sunlight.
Incompatible materials :	No particular incompatibilities.
Hazardous decomposition products:	This product is likely to decompose only after heating to dryness, followed by further strong heating. In a fire, formation of carbon monoxide and carbon dioxide can be expected. Water is also formed. May form nitrogen and its compounds and, under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Potassium compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgement, and unconsciousness followed by coma and death.
Hazardous reactions:	Stable under recommended storage conditions. No decomposition if used as directed. Does not polymerise.

10) TOXICOLOGICAL INFORMATION

There are no data to hand indicating any particular target organs.

Inhalation:	Available data shows that this product is very toxic, but symptoms are not available. In addition product may be mildly irritating, but is unlikely to cause anything more than mild transient discomfort. LONG TERM EXPOSURE – No data for health effects associated with long term inhalation.
Skin contact:	Available data shows that this product is harmful, but symptoms are not available. In addition product may be mildly irritating, but is unlikely to cause anything more than mild transient discomfort. LONG TERM EXPOSURE – No data for health effects associated



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with long term skin exposure.

Eye contact: This product may be irritating to the eyes, but is unlikely to cause anything more than mild transient discomfort.
LONG TERM EXPOSURE – No data for health effects associated with long term eye exposure.

Ingestion: Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful, but symptoms are not available. However, this product may be irritating to mucous membranes, but is unlikely to cause anything more than mild transient discomfort.
LONG TERM EXPOSURE – No data for health effects associated with long term ingestion.

Chronic toxicity:
Germ cell mutagenicity: No data
Carcinogenicity: No significant ingredient is classified as carcinogenic by SWA, NTP or IARC.

Acute toxicity:
Oral toxicity (active constituent): LD₅₀ 233 mg/kg in rats
Dermal toxicity (active constituent): LD₅₀ 481 mg/kg in rabbits

Inhalation toxicity: LC₅₀ (4-hr) 0.7 mg/L in rats

Sensitisation: No data

11) ECOLOGICAL INFORMATION

Highly toxic to fish and aquatic invertebrate. It is also toxic to wildlife. Treatment of algae and aquatic plants can result in oxygen loss from decomposition of dead algae and plants. This loss can cause fish suffocation. DO NOT contaminate streams, rivers or waterway with this product or the used containers.

Ecotoxicity: **Endothal:**
Fish toxicity:
LC₅₀ *Leponis macrochirus* (bluegill sunfish) : 0.94mg/L
LC₅₀ *Oncorhynchus mykiss* (rainbow trout) : 0.56-0.94mg/L
LC₅₀ Channel catfish : 0.49 mg/L
LC₅₀ *Pimephales promelas* (fathead minnow) : 0.75mg/L
Birds :
LD₅₀ bobwhite quail : 736mg/kg
Bees : No data

Environmental fate, persistence and degradability, mobility No data

Identified harmful Highly toxic to fish and aquatic invertebrate. It is also toxic to wildlife



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effects on environment:

Other precautions: Do not contaminate dams, waterways or sewers with this product.

12) DISPOSAL CONSIDERATIONS

This product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used containers. Triple or preferable pressure rinse containers before disposal. Add rinsings to the mixing tank. Do not dispose of undiluted chemical 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 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.

13) TRANSPORT INFORMATION

Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

UN No.:	2902
Proper shipping name:	PESTICIDE, LIQUID, TOXIC,N.O.S.
Class:	6.1
Special provisions :	61, 223, 274
Packing group:	III
Packing instruction :	P001, IBC03, LP01

14) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 47841

15) OTHER INFORMATION

Date of revision : 1 December 2016
Reason for revision : Upgrading to GHS format.

This MSDS 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 MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

END OF MSDS