



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CAMPBELL BIFF 100SC INSECTICIDE
Other Names: None
Chemical Group: Pyrethroid
CAS No.: 35554-44-0
Recommended Use: Insecticide for control of insect pests in 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: ccsyd@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

Classified as hazardous according to the criteria of Worksafe Australia.

GHS classification: Acute toxicity oral : Category 4
Hazardous to the Aquatic Environment – Acute Hazard: Category 1
Hazardous to the Aquatic Environment – Long term hazard: Category 4.

GHS Signal Words: WARNING

Hazard Statements : H302 : Harmful if swallowed.
H400 – Very toxic to aquatic life
H413 – May cause long lasting harmful effects to aquatic life

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:



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

Precautionary statements	P301 + P312 – IF SWALLOWED: Call a Poison Centre or doctor.
Response:	P330 – Rinse mouth P391 – Collect spillage
Storage :	No specific instructions
Disposal:	P501 Dispose of contents and container as specified on the registered label.
Other information :	Not dangerous according to Australian Dangerous Goods (ADG) Code. Dangerous according to IATA and IMDG/IMSBC criteria. Hazardous substance.

3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Bifenthrin	82657-04-3	100g/L
Propane-1,2-diol	57-55-6	1-10%
Other ingredients classified as non-dangerous	Non hazardous	To 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 Safety Data Sheet to the doctor.**

If inhaled:	Remove source of contamination or move victim to fresh air and keep at rest. If difficulty in breathing is experienced, give oxygen and artificial respiration if necessary.
In case of skin contact:	Wash gently and thoroughly affected areas with mild soap and plenty of water 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:	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. Seek medical advice immediately if irritation develops or persists.
If swallowed:	Seek medical attention immediately. Do not induce vomiting. It is recommended to give a slurry of activated charcoal to absorb the product swallowed. NOTE: Do not give fluids, tablets or induce vomiting if patient is unconscious or convulsing.
First Aid facilities	Ensure eye wash and safety shower are available. Ensure activated charcoal is available.
Medical Attention:	Product contains petroleum type solvents and the benefits of induced vomiting must be weighed against possibility of chemical pneumonia caused by petroleum like solvents.



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

5) FIRE FIGHTING MEASURES

Extinguishing media	Product is not flammable.
Hazard from combustion products	Carbon dioxide, carbon monoxide.
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	Not applicable

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.

7) HANDLING AND STORAGE

Handling	Keep out of reach of children. 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.



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

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: PVC, neoprene or nitrile 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: White opaque liquid

Odour: Slight odour

Vapour pressure: No data

Relative vapour density: Not available

Evaporation rate: No data

Volatile component: No data

Boiling point: Not applicable

Freezing/Melting point: Not applicable

pH: 4.8-5.5

Solubility: Disperses in water.

Specific gravity: 1.04 at 20°C

Flash point: Non flammable

Flammability (explosive) limit: Non flammable

Auto ignition temperature: No data available.

Partition coefficient (octanol/water): No data available.

Viscosity: No data available

Oxidising properties: No data available.

Corrosive Hazard: Non corrosive. Compatible with stainless steel, polyethylene and fibreglass containers used in spray tanks and parts.



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

10) STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use and storage.
Conditions to avoid:	Heat
Incompatible materials :	No particular materials to avoid.
Hazardous decomposition products:	When the product is heated to high temperatures, the active ingredient will decompose and emit toxic fumes.
Hazardous reactions:	No data available

10) TOXICOLOGICAL INFORMATION

Inhalation:	The acute inhalation toxicity is moderate. Excessive exposure to spray may be harmful. Prolonged exposure to the spray may cause eye and respiratory irritation, dizziness and headaches.
Skin contact:	The acute dermal toxicity is low, however repeated exposure may result in absorption of harmful amounts. Repeated skin contact may cause allergic reactions
Eye contact:	Moderate eye irritant
Ingestion:	No information on possible symptoms.
<u>Chronic toxicity:</u>	Bifenthrin does not cause generic change or accumulate in the body. Long term carcinogenicity studies of the active ingredient, bifenthrin, on rats and mice showed no increase in tumours.
Germ cell mutagenicity:	No data available
Carcinogenicity:	No significant ingredient is classified as carcinogenic by SWA, NTP or IARC.
<u>Acute toxicity:</u>	
Oral toxicity (bifenthrin):	LD ₅₀ 54.5 mg/kg in rat
Dermal toxicity (bifenthrin):	LD ₅₀ >2000 mg/kg in rat
Inhalation toxicity (bifenthrin):	No data available
Sensitisation:	No data available



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

11) ECOLOGICAL INFORMATION

Toxic to fish and aquatic invertebrate. DO NOT contaminate streams, rivers or waterway with this product or the used containers.

Ecotoxicity: Imazalil:

Fish toxicity: LC₅₀ (96 hr) *Leponis macrochirus* (bluegill sunfish) : 0.35mg/L

Invertebrates : LC₅₀ (48-hr) (Daphnia) : 0.0016mg/L

Algae: No data

Bees : Highly toxic.

Environmental fate, persistence and degradability, mobility

Half life in soil is 65-125 days depending on soil type.
From Koc values bifenthrin is immobile in soil.

Identified harmful effects on environment:

Toxic to fish and aquatic invertebrate. Practically non-toxic to birds.

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

Not dangerous according to Australian Dangerous Goods (ADG) Code.

Dangerous according to IATA and IMDG/IMSBC criteria.

IMDG/IMSBC

UN No.: 3082

IMO Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O..S. (contains bifenthrin 10%)

IMO Class: 9

Packing group: III
IMO Marine Pollutant: Marine Pollutant



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

14) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 63190

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 SDS