



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### SAFETY DATA SHEET

Date of Issue: 1 November 2017

#### 1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** CAMPBELL MOXAM 250SC INSECTICIDE  
**Other Names:** None  
**Chemical Group:** Neonicotinoid  
**CAS No.:** 153719-23-4  
**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:** [cccsyd@campbellchemicals.com.au](mailto:cccsyd@campbellchemicals.com.au)  
**Website:** [www.campbellchemicals.com.au](http://www.campbellchemicals.com.au)  
**Contact:** Product Development Manager – (02) 9725 2544  
**Emergency Telephone Number:** 13 11 26 (Poisons Information Centre)

#### 2) HAZARDS IDENTIFICATION

This product is classified as : Xn, Harmful. 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.  
H313 : May be harmful in contact with skin  
H333 : May be harmful 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:** P202 : Do not handle until all safety precautions have been read and understood.  
P234 : Keep only in original container.



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### SAFETY DATA SHEET

Date of Issue: 1 November 2017

P261 : Avoid breathing fumes, mists, vapours or spray.  
P262 : Do not get in eyes, on skin, or in clothing.  
P264 : Wash contacted areas thoroughly after handling.  
P270 : Do not eat drink or smoke when using this product.  
P285 : In case of inadequate ventilation wear respiratory protection.  
P235 + P410 : Keep cool. Protect from sunlight.

**Precautionary statements**  
**Response:**

P362 : Take off contaminated clothing and wash before reuse.  
P301 + P312 – IF SWALLOWED: Call a Poison Centre or doctor.  
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.  
P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.  
P337+P313 : If eye irritation persists : Get medical advice.  
P309+P311 : If exposed or you feel unwell: Call a POISONS CENTRE or doctor.

**Storage :**

P402+P404 : Store in a dry place. Store in a closed container.  
P410+P403 : Protect from sunlight. Store in a well-ventilated place.

**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
Thiamethoxam	153719-23-4	250g/L
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:**

No specific health data are available for this product. If any unusual symptoms become evident, or if in doubt, contact a Poisons Information Centre or a doctor.

**In case of skin contact:**

Wash gently and thoroughly affected areas with mild soap and plenty of water for 5 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.



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### SAFETY DATA SHEET

Date of Issue: 1 November 2017

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<b>In case of eye contact:</b>	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.
<b>If swallowed:</b>	Do not induce vomiting. Wash mouth with water and contact a Poisons Information Centre or a doctor.
<b>First Aid facilities</b>	Ensure eye wash and safety shower are available.
<b>Medical Attention:</b>	Treat symptomatically.

#### 5) FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Product is not combustible.
<b>Hazard from combustion products</b>	Carbon dioxide, carbon monoxide. There is no risk of an explosion by this product if involved in a fire.
<b>Precautions for fighting fires</b>	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.
<b>Hazchem Code</b>	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.



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### SAFETY DATA SHEET

Date of Issue: 1 November 2017

#### 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** This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Make sure this product does not come into contact with substances listed as "Incompatibilities" in Section 10. 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 <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
	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: Not normally necessary. If inhalation is likely an AS/NZS 1715/1716 approved respirator should be worn.

#### 9) PHYSICAL AND CHEMICALS PROPERTIES

- Appearance:** White opaque liquid suspension
- Odour:** Slight odour
- Vapour pressure:** No data
- Relative vapour density:** Not available
- Evaporation rate:** No data



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### SAFETY DATA SHEET

Date of Issue: 1 November 2017

<b>Volatile component:</b>	No data
<b>Boiling point:</b>	Not applicable
<b>Freezing/Melting point:</b>	Not applicable
<b>pH:</b>	
<b>Solubility:</b>	Disperses in water.
<b>Specific gravity:</b>	1.08 at 20°C
<b>Flash point:</b>	Non flammable
<b>Flammability (explosive) limit:</b>	Non flammable
<b>Auto ignition temperature:</b>	No data available.
<b>Partition coefficient (octanol/water):</b>	No data available.
<b>Viscosity:</b>	No data available
<b>Oxidising properties:</b>	No data available.
<b>Corrosive Hazard:</b>	Non corrosive. Compatible with stainless steel, polyethylene and fibreglass containers used in spray tanks and parts.

#### 10) STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal conditions of use and storage.
<b>Conditions to avoid:</b>	This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Protect this product from light.
<b>Incompatible materials :</b>	No particular materials to avoid.
<b>Hazardous decomposition products:</b>	This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide and, if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds and, under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form oxides of sulphur (sulphur dioxide is a respiratory hazard) and other sulphur compounds. Most will have a foul odour. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgement, and unconsciousness followed by coma and death.
<b>Hazardous reactions:</b>	No data available

#### 11) TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	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.
<b>Skin contact:</b>	The acute dermal toxicity is low, however repeated exposure may result in absorption of harmful amounts. Repeated skin contact may cause allergic reactions



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### SAFETY DATA SHEET

Date of Issue: 1 November 2017

**Eye contact:** Moderate eye irritant

**Ingestion:** No information on possible symptoms.

#### **Chronic toxicity:**

Thiamethoxam technical has been extensively tested on laboratory mammals and in test tube systems. The liver and kidney were identified as target organs. No evidence of neurotoxic, mutagenic, teratogenic or reproductive effects was obtained. No carcinogenic potential was noticed in rats. Liver tumours were observed in a carcinogenic study in mice but occurred at dose levels that interfered with normal liver function and is considered to be related to sustained regenerative cell proliferation related to cell death supported by a phenobarbital-like enzyme induction. Special studies revealed that thiamethoxam technical acts as an inducer of metabolising liver enzymes in the mouse. This effect had a clear threshold level and was of a type specific to mice and is not considered relevant to humans.

#### **Acute toxicity**

##### **(active constituent):**

**Oral toxicity (thiamethoxam):** LD<sub>50</sub> 1,563mg/kg (rat)  
LD<sub>50</sub> 783mg/kg (male mouse)  
LD<sub>50</sub> 964mg/kg (female mouse)

**Dermal toxicity (thiamethoxam):** LD<sub>50</sub> >2000 mg/kg in rat

**Inhalation toxicity (thiamethoxam):** LC<sub>50</sub> >3,720 mg/L in rat

**Sensitisation:** Not a skin sensitiser

## 12) ECOLOGICAL INFORMATION

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

#### **Ecotoxicity: Thiamethoxam technical:**

##### **Fish toxicity: Practically non-toxic to fish**

LC<sub>50</sub> (96 hr) *Oncorhynchus mykiss* (rainbow trout) : >100mg/L

##### **Invertebrates : Very highly toxic to certain aquatic invertebrates**

EC<sub>50</sub> (48-hr) (*Daphnia*) : >100mg/L

##### **Algae: Practically non-toxic to algae**

*Pseudokirchneriella subcapitata* (green algae) ErC<sub>50</sub> (72-hr): >100mg/L

**Bees : Highly toxic to bees** by contact and oral application. Avoid spraying while bees are foraging.

**Environmental fate, persistence and degradability, mobility** Not persistent in soil. Stable in water. Moderately mobile in soil. Incorporated into C, H, N and O containing organic molecules. No potential for bioaccumulation.

**Identified harmful effects on environment:** Toxic to fish and aquatic invertebrate.

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



## COLIN CAMPBELL (CHEMICALS) PTY. LTD.

### SAFETY DATA SHEET

Date of Issue: 1 November 2017

#### 13) 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.

#### 14) TRANSPORT INFORMATION

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

**Dangerous according to IATA and IMDG/IMSBC criteria.**

##### IMDG/IMSBC

<b>UN No.:</b>	3082
<b>IMO Proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O..S. (contains thiamethoxam 25%)
<b>IMO Class:</b>	9
<b>Packing group:</b>	III
<b>IMO Marine Pollutant:</b>	Marine Pollutant

#### 15) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number:  
Poisons Schedule (SUSDP) : 5

#### 16) OTHER INFORMATION

Date of revision : 1 November 2017  
Reason for revision : New product SDS.

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**