



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CAMPBELL COBRA 480SC INSECTICIDE
Other Names: Thiacloprid
Chemical Group: Neonicotinoid insecticide
CAS No.:
Recommended Use: Insecticide for use on horticultural crops.
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: (02) 9725 2544 – 8am to 6pm Monday to Friday.

2) HAZARDS IDENTIFICATION

GHS classification: Acute toxicity : Category 3
Harmful if inhaled : Category 4
Skin sensitisation : Category 1
Carcinogenicity : Category 2
Specific target organ toxicity – repeated exposure : Category 1
Reproductive toxicity : Category 2
Acute aquatic toxicity : Category 1
Chronic aquatic toxicity : Category 1

Signal Words: DANGER

Hazard Statements : H301 : Toxic if swallowed.
H332 : Harmful if inhaled.
H317 : May cause an allergic skin reaction.
H351 Suspected of causing cancer
H361 Suspected of damaging fertility or the unborn child.
H372 : Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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.



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Pictograms :



Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.

Prevention:

P260 : Do not breathe mist.

P264 : Wash hands thoroughly after handling.

P270 : Do not eat, drink or smoke when using this product.

P280 : Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements

P301 + P310 : IF SWALLOWED : Immediately call a POISONS CENTRE /doctor.

Response:

P330 : Rinse mouth.

P302 + P352 : IF ON SKIN : Wash with plenty of water/soap.

P333 + P313 : If skin irritation or rash occurs: Get medical advice/attention.

P304 + P340 : IF INHALED : Remove person to fresh air and keep comfortable for breathing.

P312 : Call a Poisons Information Centre or doctor if you feel unwell.

P363 : Wash contaminated clothing before reuse.

Storage :

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to an approved waste disposal plant.

Other information :

Dangerous goods.

Hazardous substance.

Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Thiacloprid	111988-49-9	40%
Other ingredients including wetting agents and water	Non hazardous	30-60%



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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:	Move to fresh air and keep warm at rest in a position comfortable for breathing. Call a doctor immediately.
In case of skin contact:	Carefully remove contaminated clothing and shoes immediately. Wash affected areas with mild soap and plenty of water. If available wash with polyethyleneglycol 400 and subsequently rinse with water. If symptoms persist, call a doctor..
In case of eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
If swallowed:	Rinse mouth. DO NOT induce vomiting. Call a doctor.
First Aid facilities	Ensure eye wash and safety shower are available.
Medical Attention:	If large amounts are ingested, the following symptoms may occur : breathing difficulties, tremors, blood disorders, hypothermia. Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestion only within the first two hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.

5) FIRE FIGHTING MEASURES

Extinguishing media	Water spray, carbon dioxide, foam or sand.
Hazard from combustion products	In a fire, formation of carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen cyanide, sulphur oxides and nitrogen oxides can be expected.
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



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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. 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. Use only in areas with adequate ventilation.

Storage Store in the closed original container in a dry, cool, well-ventilated area out of 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)
	0.34*	Not set

*Whilst no TWA has been established by SWA, this is a recommended level.

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. Facilities storing or utilising this material should be equipped with an eyewash facility and safety shower.

Personal Protective Equipment

Eyes: Safety goggles.

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

Gloves: Nitrile-butyl-rubber gloves with rate of permeability >480 minutes and glove thickness >0.4mm.. Before removing gloves clean them with soap and water.

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



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9) PHYSICAL AND CHEMICALS PROPERTIES

Appearance:	White to light beige liquid
Odour:	Weak, characteristic.
Vapour pressure:	Not available
Relative vapour density:	Not available
Evaporation rate:	Not determined.
Boiling point:	About 100°C
Freezing/Melting point:	No data available.
pH:	7.0-8.0 8.0 at 1g/100mL water
Solubility:	Disperses in water
Specific gravity:	1.16 (25°C)
Flash point:	No data available.
Flammability (explosive) limit:	Not available
Auto ignition temperature:	No data available.
Partition coefficient (octanol/water):	Thiacloprid : logP _{ow} : 1.26 at 20°C.
Viscosity:	1500-3000 mPas @20°C
Oxidising properties:	No data available.

10) STABILITY AND REACTIVITY

Chemical stability:	Stable against heat, acid, alkali, and sunlight under normal conditions of use and storage.
Conditions to avoid:	Excessive heat and freezing.
Incompatible materials :	Acids, bases.
Hazardous decomposition products:	Thermal decomposition can lead to release of hydrogen chloride, hydrogen cyanide, carbon monoxide, sulphur oxides and nitrogen oxides.
Hazardous reactions:	Stable under recommended storage conditions. No decomposition if used as directed.

10) TOXICOLOGICAL INFORMATION

Inhalation:	Harmful
Skin contact:	May cause skin irritation. Skin sensitiser.
Eye contact:	May cause eye irritation.
Ingestion:	May be fatal if swallowed.
Chronic toxicity:	
Germ cell mutagenicity:	Thiacloprid was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.



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Carcinogenicity:	Thiacloprid caused at high dose levels an increased incidence of tumours in rats in the following organ(s): uterus, thyroid. Thiacloprid caused at high dose levels an increased incidence of tumours in mice in the following organs : ovaries. The tumours seen with thiacloprid were caused through a non-genotoxic mechanism, which is not relevant at low doses. The mechanism that triggers tumours in rodents is not relevant for the low exposures encountered under normal use conditions.
Toxic to reproduction:	Thiacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. Thiacloprid caused difficulties in parturition in rats. The mechanism of action for this effect is not considered to be relevant to man.
Specific target organ toxicity (repeated exposure):	Thiacloprid did not cause specific target organ toxicity in experimental animal studies.
Acute toxicity:	
Oral toxicity:	LD ₅₀ rat >300 - >500 mg/kg
Dermal toxicity :	LD ₅₀ rat >4,000mg/kg
Inhalation toxicity:	LC ₅₀ (rat) (4 hr) >0.9 - >2.2 mg/L
Sensitisation:	Non sensitising (guinea pig) – OECD Test Guideline 406, Buehler Test Sensitising (guinea pig) – OECD Test Guideline 406, Magnusson and Kligman test
Respiratory sensitisation	No data available
Specific target organ toxicity (single exposure):	No sufficient data available

11) ECOLOGICAL INFORMATION

Very toxic to aquatic organisms and may cause adverse effects in the aquatic environment.
DO NOT contaminate streams, rivers or waterway with Cobra or the used containers.

Ecotoxicity: Thiacloprid:

Fish toxicity:

LC₅₀ (96 h)(*Lepomis macrochirus* (Bluegill sunfish)) 80.7 mg/L.

Aquatic invertebrates:

LC₅₀ (24 hr)(*Chironomus riparius* (non-biting midge)) 0.032 mg/L

LC₅₀ (96 hr)(*Hyaella azteca* (Scud)) 0.0245 mg/L

Daphnia toxicity: EC-50 (48 h) 85.1 mg/L

Algae toxicity :

IC₅₀ (72h) 96.7 mg/L

Other organisms:

LD₅₀ (*Coturnix japonica* (Japanese quail)) 49 mg/kg

LD₅₀ (*Colinus virginianus* (Bobwhite quail)) 2,716 mg/kg



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Environmental fate, persistence and degradability, mobility	Not readily biodegradable. Koc Thiacloprid 615. Does not bioaccumulate. Slightly mobile in soils.
Identified harmful effects on environment:	This product is a marine pollutant for sea transport. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic 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

International regulation

IATA-DGR

UN/ID No.:	2902
Proper shipping name:	PESTICIDE, LIQUID, TOXIC, N.O.S. (thiacloprid solution)
Class:	6.1
Packing group:	III
Labels:	Miscellaneous
Environment Hazardous	No
Mark:	

IMDG-Code

UN number:	3082
Proper shipping name:	PESTICIDE, LIQUID, TOXIC, N.O.S. (thiacloprid solution)
Class:	6.1
Packing group:	III
Marine pollutant:	Yes



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ADG

UN number: 3082
Proper shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S. (thiacloprid solution)
Class: 6.1
Packing group: III
Hazchem code: 2X
(a)

14) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 81523

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