



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

SAFETY DATA SHEET

Date of Issue: 1 December 2016

1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: TOPS PLANT GROWTH REGULATOR
Other Names: 3,5,6-TPA
Chemical Group: Synthetic auxin
CAS No.: 144-55-8, 9004-34-6, 55335-06-3, 77-92-9, 4070-80-8
Recommended Use: Thinner and sizer for citrus, anti-drop agent for lychees.
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: Not a hazardous substance or mixture.
GHS Signal Words: No signal word required
Hazard Statements : No hazard statements required.

General Precautionary Statements : P102 Keep out of reach of children.
P103 Read label before use.

Pictograms : No pictograms required.

Precautionary statements Prevention: No specific precautionary statements required.

Precautionary statements Response: No specific precautionary statements required.

Storage : No specific storage statements required..

Disposal: No specific storage statements required

Other information : Non-dangerous and non-hazardous goods as defined by WHS.



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3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Sodium hydrogen carbonate	144-55-8	60-100%
Cellulose	9004-34-6	10-30%
((3,5,6-trichloropyridin-2-yl)oxy)acetic acid	55335-06-3	10-30%
Citric acid	77-92-9	10-30%
Sodium octadecyl fumarate	4070-80-8	<10%

4) FIRST AID MEASURES

For advice, contact a doctor or Poison Information Centre (Ph: 13 11 26) and follow the advice given. Show this Safety Data Sheet to the doctor. There are no hazards that require special first aid measures.

If inhaled: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a doctor.

In case of skin contact: Carefully remove contaminated clothing and shoes immediately. Wash affected areas with mild soap and plenty of water.

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing cautiously for several minutes.

If swallowed: Rinse mouth and afterwards drink plenty of water. DO NOT give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

First Aid facilities Ensure eye wash and safety shower are available.

Medical Attention: No information on symptoms. The first aid procedure should be established in consultation with a doctor responsible for industrial medicine.

5) FIRE FIGHTING MEASURES

Extinguishing media Use extinguishing media that are appropriate to local circumstances and the surrounding environment.

Hazard from combustion products In a fire, formation of carbon monoxide, carbon dioxide 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 Not established



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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. When using do not eat, drink or smoke. 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. Avoid dust formation.

Storage Store in the tightly closed original container in a cool well ventilated area out of sunlight. Do not reuse empty container. Do not store with food, feed or other materials to be used or consumed by humans and animals.

8) EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards

Cellulose:

TWA (mg/m ³)	STEL (mg/m ³)
10	Not set

This value is for inhalable dust containing no asbestos and <1% crystalline silica.

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 and dust formation. 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. Eye wash bottle with pure water.
Clothing: Impervious overalls buttoned to the neck and wrists and a washable hat.



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Gloves: For prolonged or repeated contact wear polyvinyl alcohol or nitrile-butyl-rubber gloves. Before removing gloves clean them with soap and water.

Respiratory: Not necessary unless adequate ventilation is inadequate. If inhalation is likely an AS/NZS 1715/1716 approved respirator should be worn.

9) PHYSICAL AND CHEMICALS PROPERTIES

Appearance: Solid light grey to brown tablet.
Odour: Mild
pH: 6.9 as a 1% solution at 20°C
Vapour pressure: Not available.
Vapour density: Not available
Boiling point: No data
Freezing/Melting point: Not available
Solubility: Completely soluble in water.
Density: >1 g/m³
Viscosity: Not applicable
Flash point: No data available
Flammability (explosive) limit: Not applicable
Auto ignition temperature: Not available
Partition coefficient (octanol/water): Unknown

10) STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions

Conditions to avoid: No data available

Incompatible materials : None known.

Hazardous decomposition products: Burning produces noxious and toxic fumes.

Hazardous reactions: Stable under recommended storage conditions. No decomposition if used as directed.



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10) TOXICOLOGICAL INFORMATION

Inhalation:	No data available.
Skin contact:	No data available.
Eye contact:	No eye irritation on rabbits. According to the classification of the European Union, the product is not considered as being an eye irritant.
Ingestion:	No data available.
Chronic toxicity:	
Germ cell mutagenicity:	Citric acid: animal testing did not show any mutagenic effects
Carcinogenicity:	Citric acid : animal testing did not show any carcinogenic effects.
Toxic to reproduction:	No toxicity to reproduction. No effects on or via lactation.
Specific target organ toxicity (repeated exposure):	The substance or mixture is not classified as a specific target organ toxicant, repeated exposure.
Acute toxicity:	
Product:	
Oral toxicity:	LD ₅₀ rat >2,000 mg/kg
Dermal toxicity :	LD ₅₀ rat >2,000 mg/kg
Inhalation toxicity:	Not classified due to testing being technically impossible. Expect the component/mixture is low toxicity after short term inhalation.
Components:	
Sodium hydrogencarbonate:	LD ₅₀ rat >4,000 mg/kg
Citric acid :	LD ₅₀ rat >2,000 mg/kg
Sensitisation:	Product and components : Did not cause sensitisation on laboratory mice or guinea pigs.
Respiratory sensitisation	No data available.
Specific target organ toxicity (single exposure):	The substance or mixture is not classified as a specific target organ toxicant with repeated exposure.

11) ECOLOGICAL INFORMATION

DO NOT contaminate streams, rivers or waterway with this product or the used containers.



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Ecotoxicity:

Product:

Toxicity to fish : LC₅₀ (96 hr) (fish) >100mg/L

Toxicity to Daphnia and other aquatic invertebrates : EC₅₀ (48 hr) (Daphnia) >100mg/L

Toxicity to algae : IC₅₀ (120 hr) (*Pseudokirchneriella subcapitata*(green algae)) 650 mg/L

Components:

Sodium hydrogencarbonate

Toxicity to fish : LC₅₀ (96 hr) (*Oncorhynchus mykiss* (rainbow trout)) 7,700 mg/L

Toxicity to Daphnia and other aquatic invertebrates : EC₅₀ (48 hr) (Daphnia) 4,100 mg/L

Toxicity to algae : IC₅₀ (120 hr) (*Pseudokirchneriella subcapitata*(green algae)) 650mg/L

Cellulose

Toxicity to fish : LC₅₀ (96 hr) 100mg/L

Toxicity to Daphnia and other aquatic invertebrates : EC₅₀ (48 hr) (Daphnia) 100mg/L

Toxicity to algae : IC₅₀ (120 hr) 100mg/L

Citric acid

Toxicity to fish : LC₅₀ (96 hr) (*Lepomis machrochirus* (Bluegill) 1,516 mg/L

LC₅₀ (96 hr) (*Leuciscus idus* (golden orfe) 440-760 mg/L

Toxicity to Daphnia and other aquatic invertebrates : EC₅₀ (24 hr) (Daphnia) 85-1,535 mg/L

Environmental fate, persistence and degradability, mobility

Cellulose : Readily biodegradable

Citric acid: Readily biodegradable . Biodegradation 85% (1 day). Inoculum – activated sludge.

Bioconcentration factor (BCF) (fish) : 0.01

Partition co-efficient : n-octanol/water : logPow : -1.7

Identified harmful effects on environment:

There is no other data available for this product.

Other precautions:

Do not contaminate dams, waterways or sewers with this product or used containers.

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. Do not reuse empty containers.



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13) TRANSPORT INFORMATION

International regulation

UNRTDG	Not regulated as a dangerous good.
IATA-DGR	Not regulated as a dangerous good
IMDG-Code	Not regulated as a dangerous good.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :	Not applicable for product as supplied.

National Regulations

ADG Code

Not considered as a dangerous good for transport by road or rail in Australia under the Australian Dangerous Goods Code.

14) REGULATORY INFORMATION

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 66481

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