



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

MATERIAL SAFETY DATA SHEET

Date of Issue: 1 January 2008

1) IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: CAMPBELL CARNAUBA XTRA APPLE WAX
Other Names: None
Chemical Group: Wax
Recommended Use: Wax for application to apples postharvest.
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: (02) 9725 2544 – 8am to 6pm Monday to Friday.

2) HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

Hazardous classification: Not hazardous according to the criteria of the National Occupational Health & Safety Commission (NOHSC)
Risk phrases: None applicable
Safety phrases: See sections 4,5,6,7,8,10,12,13
ADG Classification Not a Dangerous good for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
SUSDP classification: Unscheduled

3) COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Morpholine	110-91-8	<3%
Inerts	Non hazardous	>60%

4) FIRST AID MEASURES

If poisoning occurs, 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.

Inhalation: Remove to fresh air and keep at rest. Give artificial respiration if necessary.
Skin Contact: Carefully remove contaminated clothing. Wash affected areas with soap and water. If redness, irritation or burning occurs, seek medical advice.



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

MATERIAL SAFETY DATA SHEET

Date of Issue: 1 January 2008

4) FIRST AID MEASURES continued

Eye contact:	Check and remove any contact lenses. Rinse eyes immediately with clean water for at least 15 minutes and seek medical aid. Eyelids should be held away from the eyeball to ensure thorough rinsing.
Ingestion:	have patient sip a glass of water or milk of magnesia if able to swallow. Do NOT induce vomiting. Seek medical advice immediately.
First Aid facilities	Ensure eye wash and safety shower are available.
Medical Attention:	Treat symptomatically.

5) FIRE FIGHTING MEASURES

Extinguishing media	Not flammable. Use any means suitable to fight fire.
Hazard from combustion products	In a fire, formation of carbon monoxide and 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 watercourses. Dispose of extinguishing agent and spillage safely later. Do not release contaminated water into the environment.
Hazchem Code	None available

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. 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. 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. Exposure to extreme high or low temperature will break the emulsion.
Flammability	Not flammable



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

MATERIAL SAFETY DATA SHEET

Date of Issue: 1 January 2008

8) EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards	Exposure limit 20ppm - skin (morpholine)
Biological Limit Values	None allocated
Engineering Controls	Control process conditions to avoid contact. Use in a well ventilated area only.
Personal Protective Equipment	Eyes: Safety goggles or face shield if exposure is possible Clothing: Chemical resistant disposable overalls Gloves: PVC gloves Respiratory: Not normally required. If inhalation is likely an AS/NZS 1715/1716 approved respirator should be worn.

9) PHYSICAL AND CHEMICALS PROPERTIES

Appearance:	Brownish-grey opaque liquid
Odour:	None
Vapour pressure:	Not available
Vapour density:	Not available
Boiling point:	>93°C
Melting point:	Not available
pH:	9 - 10
Solubility:	Soluble in water
Specific gravity:	1.01 at 20°C
Flash point:	Not flammable
Flammability (explosive) limit:	Not available
Auto ignition temperature:	Not available
Partition coefficient (octanol/water):	Not available

10) STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Alkaline metals, copper
Incompatible materials :	Strong oxidising agents

10) STABILITY AND REACTIVITY continued



COLIN CAMPBELL (CHEMICALS) PTY. LTD.

MATERIAL SAFETY DATA SHEET

Date of Issue: 1 January 2008

Hazardous decomposition products: In a fire, formation of dense smoke, carbon monoxide and carbon dioxide can be expected.

Hazardous reactions: None known

11) TOXICOLOGICAL INFORMATION

Morpholine:

Acute oral LD ₅₀ (rat) :	1050 mg/kg
Acute dermal LD ₅₀ (rabbit) :	1210 mg/kg

12) ECOLOGICAL INFORMATION

No data available

12) DISPOSAL CONSIDERATIONS

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

UN Number: Not applicable
Proper Shipping name: Not applicable
Class and subsidiary risk: Not applicable
Packing Group: Not applicable
EPG: Not applicable
Hazchem code: Not applicable

14) REGULATORY INFORMATION

No requirement for registration under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth)

15) OTHER INFORMATION

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.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact this company.

END OF MSDS