

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Carnauba Natural

Item Code:

Product Use: Carnauba based, morpholine free apple coating.

Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticentre Ltd Address: 10 Firth Street Drury, 2113

Telephone: +64 9 294 8453 Fax Number: +64 9 294 7272

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 22 May 2024 v2

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR001563

Pictograms



Irritant

Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Skin irritation Cat. 2	H315	Causes skin irritation.
Eye irritation Cat. 2	H319	Causes serious eye irritation.

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
P264	Wash hands thoroughly after handling.
P280	Wear protective clothing [as detailed in SDS Section 8].

Response Code	Response Statement
P302 + P352	IF ON SKIN: Wash with plenty of water.

P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash before reuse.

Storage Code	Storage Statement
None allocated	Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Ammonium hydroxide	1-10	1336-21-6
Non hazardous	To Bal	

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice.

If on Skin Take off contaminated clothing and wash before re-use. Wash with plenty

of soap and water. If skin irritation occurs: get medical advice/attention.

If Swallowed Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a

glass of water to drink. Never give anything by the mouth to an

unconscious patient. If vomiting occurs give further water. Seek medical

advice.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if

breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Swallowing can result in nausea, vomiting and irritation of the

gastrointestinal tract.

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin: Causes skin irritation.

Eyes: Causes severe eye irritation.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from	Non-combustible material. On decomposition: Oxides of carbon and
products	nitrogen, smoke and other toxic fumes.
Suitable	If material is involved in a fire use water fog (or if unavailable fine
Extinguishing	water spray), alcohol resistant foam, standard foam, dry agent
media	(carbon dioxide, dry chemical powder).

Precautions for firefighters and special protective	Not applicable.
clothing	
HAZCHEM CODE	None allocated

Section 6. **Accidental Release Measures**

Small Spills

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

Large Spills

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Section 7. **Handling and Storage**

Precautions for Handling:

- Read carefully and follow all instructions.
- Wash hands thoroughly after handling.
- Wear protective clothing as detailed in SDS Section 8.
- Avoid contact with eyes and skin.
- Avoid inhalation of vapour, mist or aerosols.

Precautions for Storage:

- Keep out of reach of children.
- Store in a cool, dry, well-ventilated place and out of direct sunlight.
- Store away from foodstuffs.
- Store away from incompatible materials described in Section 10.
- Store away from sources of heat and/or ignition.
- Keep container standing upright.
- Keep containers closed when not in use check regularly for leaks.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWΔ Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

Workplace Exposure Standard - Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard - Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2023 14TH EDITION.

Engineering Controls

Natural ventilation should be adequate under normal use conditions.

Personal Protection

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Eyes	Wear goggles with side shields. Avoid wearing contact lenses.
Hands and	Wear protective gloves
Skin	
Respiratory	Not required.
General	Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9 Physical and Chemical Properties

A	Lieuid Aeurous Formulation
Appearance	Liquid - Aqueous Formulation
Colour	Opaque, brown.
Odour	Ammonia
Odour Threshold	Not available
рН	10.0 - 11.0
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity (20°C)	1.005-1.015
Solubilities	Completely soluble with water.
Partition Coefficient:	Not available
Auto-ignition	Not available
Temperature	
Decomposition	Not available
Temperature	
Kinematic Viscosity	Not available
Particle Size	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Elevated temperatures and sources of ignition.
Incompatible Materials	Oxidising agents.
Hazardous Decomposition	Oxides of carbon and nitrogen, smoke and other toxic fumes.
Products	

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not triggered however swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. LD50 > 2,000 mg/Kg bw
Dermal	Not applicable. LD50 > 2,000 mg/Kg bw
Inhalation	Not triggered however material may be an irritant to mucous membranes and respiratory tract. LC50 > 20.0 mg/L for vapours or LC50 > 5.0 mg/L for dust and mist.
Eye	Causes severe irritation to eye.
Skin	Causes skin irritation.

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Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive	Not applicable.
Toxicity	
Germ Cell	Not applicable.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Individual component information:

Acute Toxicity:

Chemical Name	Oral - LD50	Dermal - LD50	Inhalation - LC50
Ammmonia	350-370 mg/kg	-	-
(Cas No 1336-21-6)			

Section 12. Ecotoxicological Information

Acute aquatic hazard: This material has been classified as not hazardous for acute aquatic exposure. Acute toxicity estimate (based on ingredients): > 100 mg/L

Long-term aquatic hazard: This material has been classified as not hazardous for chronic aquatic exposure. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow < 4.

Components:

Ammonium(Cas No 1336-21-6):

Fish:

SPECIES: Coho salmon

TYPE OF EXPOSURE: Flow through

DURATION: 96 hr ENDPOINT: LC50 VALUE: 0.45 mg/l

Crustacean:

SPECIES: Daphnia magna TYPE OF EXPOSURE: DURATION: 48 hr ENDPOINT: LC50 VALUE: 0.66 mg/l

Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in Soil	No data available.
Other adverse effects	No data available.

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method: Triple rinse and dispose according to Local Regulations.

Precautions and methods to avoid: None known.

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Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2020

Section 15 Regulatory Information

EPA Approval Code: HSR001563

Trigger quantities:

	Trigger Quantity	
Certified Handler	Not required	
Location Certificate	Not required	
Tracking Trigger Quantities	Not required	
Signage Trigger Quantities	Not required	
Emergency Response Plan	Not required	
Secondary Containment	Not required	
Restriction of Use	None	

Section 16	Other Information
Glossary	
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms
	inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible
	authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14th edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2020
- 5. HSW (Hazardous Substances) Regulations 2017

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Please contact the New Zealand distributor, if further information is required.

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