# SAFETY DATA SHEET

## Section 1. Identification of the material and the supplier

| | |
|---|---|
| Product: | **Carnauba Citrus** |
| Product sizes: | 1000L, 200L, 25L |
| Product Use: | Citrus fruit wax coating. |
| Restriction of Use: | Refer to Section 15 |
| New Zealand Supplier: | Horticentre Ltd |
| Address: | 10 Firth Street<br>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 August 2022 |

## Section 2. Hazards Identification

**Not classified as hazardous according to Safe Work Australia which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Classification) Notice 2017.**

## Section 3. Composition / Information on Ingredients

| Ingredients | Wt% | CAS NUMBER. |
|---|---|---|
| Ingredients determined to be Non-Hazardous | To Balance | |

## Section 4. First Aid Measures

Routes of Exposure:

| | |
|---|---|
| If in Eyes | If in eyes wash out immediately with water. In all cases of eye contamination, it is a sensible precaution to seek medical advice. |
| If on Skin | If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance. |
| 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: None known.

Advice to Doctor: Treat symptomatically.

## Section 5. Fire Fighting Measures

| | |
|---|---|
| **Hazard Type** | The product is non-flammable and non-combustible. |
| **Hazards from products** | Oxides of carbon and nitrogen, smoke and other toxic fumes. |
| **Suitable Extinguishing media** | If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder). |
| **Precautions for firefighters and special protective clothing** | Wear protective gear. |
| **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 label before use.
- Avoid inhalation of vapour, mist or aerosols.
- Avoid eye contact and skin contact.
- Wear protective clothing as detailed in Section 8.

**Precautions for Storage:**

- 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)**

| | **TWA** | | **STEL** | |
|---|---|---|---|---|
| **Substance** | **ppm** | **mg/m³** | **ppm** | **mg/m³** |

No ingredients have known 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 APRIL 2022 13TH EDITION.

**Engineering Controls**

Natural ventilation should be adequate under normal use conditions.

**Personal Protection Equipment**

| | |
|---|---|
| **Eyes** | Use safety goggles. |
| **Skin** | Wear gloves Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. |
| **Respiratory** | Not required. |
| **Hygiene** | 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

| | |
|---|---|
| **Appearance** | Liquid |
| **Colour** | Translucent dark brown |
| **Odour** | Waxy |
| **Odour Threshold** | Not available |
| **pH** | 8.8 – 9.8 |
| **Boiling Point** | Not available |
| **Melting Point** | Not available |
| **Freezing Point** | Not available |
| **Flash Point** | Not available |
| **Flammability** | Not flammable |
| **Upper and Lower Explosive Limits** | Not available |
| **Vapour Pressure** | Not available |
| **Vapour Density** | Not available |
| **Specific Gravity ($20^0$C)** | 1.005 – 1.015 |
| **Solubilities** | Miscible in water |
| **Log Pow** | Not available |
| **Auto-ignition Temperature** | Not available |
| **Decomposition Temperature** | Not available |
| **Viscosity, kinematic** | Not available |
| **Particle Characteristics** | Not available |

## Section 10. Stability and Reactivity

| | |
|---|---|
| **Stability of Substance** | This material is thermally stable when stored and used as directed. |

| | |
|---|---|
| **Hazardous reactions** | No known hazardous reactions. |
| **Conditions to Avoid** | Elevated temperatures and sources of ignition. |
| **Incompatible Materials** | Oxidising agents. |
| **Hazardous Decomposition Products** | Oxides of carbon and nitrogen, smoke and other toxic fumes. |

## Section 11 Toxicological Information

**Acute Effects:**

| | |
|---|---|
| **Swallowed** | Not triggered however swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg |
| **Dermal** | Not applicable. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg |
| **Inhalation** | Not triggered however material may be an irritant to mucous membranes and respiratory tract. Acute toxicity estimate (based on ingredients): >20 mg/L |
| **Eye** | Not applicable. |
| **Skin** | Not applicable. |

**Chronic Effects:**

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

## Section 12. Ecotoxicological Information

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L.

**Long-term aquatic hazard:** This material has been classified as non-hazardous. 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.

| | |
|---|---|
| **Persistence and degradability** | No information available. |
| **Bioaccumulation** | No information available. |
| **Mobility in Soil** | No information available. |
| **Other adverse effects** | No information available. |

## Section 13. Disposal Considerations

**Disposal methods:** If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

**Precautions or conditions to avoid:** None known.

## Section 14 Transport Information

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

## Section 15 Regulatory Information

**Not classified as hazardous according to Safe Work Australia which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Classification) Notice 2017.**

## Section 16 Other Information

**Glossary**

| | |
|---|---|
| Cat | Category |
| $EC_{50}$ | 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 APRIL 2022 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


Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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

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