

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Castle 888

Product Use: Shellac based citrus coating.

Refer to Section 15 Restriction of Use:

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

> +64 9 294 8453 +64 9 294 7272

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 2 June 2021

Section 2. **Hazards Identification**

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

EPA Approval No: Surface Coating and Colourants (subsidiary) - HSR002670

Pictograms

Telephone:

Fax Number:



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 label before use.
P264	Wash hands thoroughly after handling.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P362	Take off contaminated clothing and wash before re-use.
P302 + P352	IF ON SKIN: Wash with plenty of soap and 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.

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P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
None Allocated	

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	1336-21-6
Morpholine	1 - 10	110-91-8
Potassium hydroxide	<1	1310-58-3
Ingredients determined to be Non-	To 100	
Hazardous		

Section 4. **First Aid Measures**

Routes of Exposure:

If in Eyes If in eyes, hold eyelids apart and flush the eyes continuously with running

> water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or

Hospital.

If on Skin If skin or hair contact occurs, immediately remove contaminated clothing

> and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for

15 minutes and transport to Doctor or Hospital.

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:

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

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

gastrointestinal tract.

Skin: Causes skin irritation.

Eye: Causes serious eye irritation.

Notes to doctor: Treat symptomatically.

Section 5. **Fire Fighting Measures**

Hazard Type	Non Flammable
Hazards from combustion products	Non-combustible material.
Suitable	If material is involved in a fire use water fog (or if unavailable fine water

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Extinguishing	spray), alcohol resistant foam, standard foam, dry agent (carbon
media	dioxide, dry chemical powder).
Precautions for	Not applicable.
firefighters and	
special protective	
clothing	
HAZCHEM CODE	None allocated.

Section 6. Accidental Release Measures

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.

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

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.

Dispose of according to Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- · Read label before use.
- Avoid eye contact and skin contact.
- Avoid inhalation of vapour, mist or aerosols.
- Wash hands thoroughly after handling.
- 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
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WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA ppm mg/m³		STEL ppm mg/m ³	
Morpholine (skin)	[110-91-8]	20	71	-	-
Potassium hydroxide	[1310-58-3]	_	Ceiling 2	_	_

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 2019 11TH EDITION.

Engineering Controls

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator.

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Personal Protection Equipment



Eyes	Tightly fitting safety goggles.
Hands	Wear protective gloves:
Skin	Wear safety shoes and overalls.
Respiratory	Use with local exhaust ventilation or while wearing appropriate respirator.
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

A	1 tourist		
Appearance	Liquid		
Colour	Dark brown		
Odour	Faint ethanol / ammonia		
Odour Threshold	Not available		
pH	8.2 - 9.2		
Boiling Point	Not available		
Melting Point	Not available		
Freezing Point	Not available		
Flash Point	Not available		
Flammability	Not available		
Upper and Lower	Not available		
Explosive Limits			
Vapour Pressure	Not available		
Density	Not available		
Specific Gravity (20°C)	1.035 - 1.050		
Solubilities	Miscible in water		
Log Pow	Not available		
Auto-ignition	Not available		
Temperature			
Decomposition	Not available		
Temperature			
Viscosity, dynamic	Not available		
Particle Characteristics	Not available		
Explosive Properties	Not available		

Section 10. Stability and Reactivity

Stability of Substance	This material is thermally stable when stored and used as directed.
Possible hazardous reactions	No known hazardous reactions.
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

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	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	Causes serious eye irritation.
Skin	Causes skin irritation.

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.

Section 12. Ecotoxicological Information

This product is not hazardous to the environment. Acute toxicity estimate (based on ingredients): >100 mg/L

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

Section 13. Disposal Considerations

Disposal Method:

Triple rinse and dispose according to Local Regulations.

Disposal methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

Section 15 Regulatory Information

EPA Approval Code: Surface Coating and Colourants (subsidiary) - HSR002670

HSWA & EPA Controls	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

Cat Category

EC₅₀ Median effective concentration.

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EEL Environmental Exposure Limit. **EPA Environmental Protection Authority**

HSNO Hazardous Substances and New Organisms.

Lethal concentration that will kill 50% of the test organisms LC_{50}

inhaling or ingesting it.

Lethal dose to kill 50% of test animals/organisms. LD_{50}

LEL Lower explosive level.

American Occupational Safety and Health Administration. OSHA

Tolerable Exposure Limit. TEL

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

Upper Explosive Level UEL WES Workplace Exposure Limit

References:

EPA Hazardous Substances (Safety Data Sheets) Notice 2017 1.

2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

4. Transport of Dangerous goods on land NZS 5433:2012

5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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

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