



DURALEX

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SAFETY DATA SHEET INFORMATION

For further information: Please refer to the Safety Data Sheet following

Issue: January 17

PRODUCT: Polyurethane Varnish Clear - Gloss and Satin

Other Names: Surface coating

Uses: Architectural coating, applied by brush, roller or spray.

Signal Word: None

UN No.:	None
Dangerous Goods Class:	Not applicable
Subsidiary Risk:	None
Packing Group:	None
Hazchem Code:	Not applicable
Poisons Schedule:	Not applicable

Hazardous Nature:	
Hazard Statement:	Not hazardous: intentionally left blank
GHS Classification:	No GHS Hazard Classification applies

Physical Characteristics (Typical) Section 9 of the SDS

Appearance	White milky liquid
Boiling Point/Range (°C):	Approximately 100
Flash Point (°C):	Not applicable
Specific Gravity/Density (g/ml @ 15°C):	1.2
pH:	8.0-9.0
Chemical Stability:	This material is thermally stable when stored and used as directed.
Reactivity:	Elevated temperatures and sources of ignition.

Product Ingredients Section 3 of the SDS

<u>Ingredient</u>	<u>CAS Number</u>	<u>Proportion</u>
Polyurethane dispersion	Various	40-60%
Biocides	Various	< 1%
Other non hazardous ingredients including water	Various	Balance

For further ingredients information, please refer to the full MSDS

GHS Pictograms Section 2 of the SDS

Not hazardous:
intentionally left
blank

DEFINITIONS

Dangerous Goods	Products that are regulated for transport under the UN International guidelines are classified as Dangerous Goods. Products can be classified by their physical characteristics and may have only one Dangerous Goods designation, although may have a subsidiary risk. These products may be Dangerous Goods for transport by Air and Sea, but may not be classed as Dangerous Goods by Road and Rail in Australia. Refer to the Australian Code for Transport of Dangerous Goods by Road and Rail (ADG) for more information.
Hazardous Substances	Hazardous Substances are those products that are intrinsically hazardous by virtue of their chemical nature, rather than as a condition of their misuse. These hazards include mutagens, teratogens, carcinogens, and products that are harmful or irritant in nature. These products may or may not carry a Dangerous Goods classification.
Poisons	Poisons are products that are regulated by the dose or exposure, often having physical and chemical effects at certain concentrations particular to the nature of the product. The associated warnings, cautions and First Aid instruction are prescriptive under the regulation in Australia.

SUMMARY INFORMATION ONLY

1. IDENTIFICATION

Product Name: Polyurethane Varnish Clear - Gloss and Satin
Other Names: Surface coating
Chemical Family: Polyurethane Varnish
Molecular Formula: Not known
Recommended Use: Architectural coating, applied by brush, roller or spray.
Supplier: Duralex Paints Pty Ltd.
ABN: 17 000 392 227
Address: 3 – 5 Muriel Avenue, Rydalmere NSW 2116
Telephone: +61 2 9638 0568
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All other inquiries: +61 2 9638 0568

2. HAZARDS IDENTIFICATION

Hazard Nature

Hazard Category

This section is intentionally left blank

GHS Classification

No GHS Hazard Classification applies

GHS Pictograms

Not hazardous:
intentionally left
blank

Hazard Statement

Not hazardous: intentionally left blank

Hazard Statements

Precautionary Statements

Dangerous Goods Classification Not applicable

Poisons Schedule Not applicable

Signal Word None

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS Number	Proportion (% v/v)
Polyurethane dispersion	Various	40-60%
Biocides	Various	< 1%
Other non hazardous ingredients including water	Various	Balance

4. FIRST AID MEASURES

For advice, contact **Poisons Information Centre (Phone Australia: 13 1126)** or a doctor.

Ingestion

If swallowed, DO NOT induce vomiting. Give a glass of water to drink. Never give anything by mouth to an unconscious patient. Keep at rest. Seek medical advice.

Eye Contact

Flush eyes with large amounts of water until irritation subsides. Seek medical attention.

Skin Contact

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

Inhalation

Using proper respiratory protection, immediately remove the affective victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Seek immediate medical attention.

First Aid Facilities

Provide eye baths and safety showers.

Medical Attention

Treat according to symptoms.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress providing fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable Extinguishing Media

If material is involved in a fire use water fog, fine water spray, foam or dry agent.

Hazards from combustion products

Non-combustible material.

Precautions for fire fighters and special protective equipment

Not combustible, however following evaporation of aqueous component residual material can burn if ignited. On burning may emit toxic fumes. Fire fighters should wear self-contained breathing apparatus and suitable protective clothing if risk of exposure t

Hazchem Code

Not applicable

6. ACCIDENTAL RELEASE MEASURES**Emergency Procedures**

Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours or dusts from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment***Major Land Spill***

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard, where present.
- Prevent product from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled product using the resources in the spill kit.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”

Major Water Spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard, where present.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”.

7. HANDLING AND STORAGE**Precautions for Safe Handling****Conditions for Safe Storage**

Store in a cool, dry place away from direct sunlight. Protect containers from physical damage and check regularly for leaks. Avoid release to the environment, store in bunded areas and ensure exit drains are closed.

Incompatible Materials

Oxidising agents.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION**National Exposure Standards**

The time weighted average concentration (TWA) for this product is: No limit allocated, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short term exposure limit (STEL) is: No limit allocated, which is the maximum allowable exposure concentration at any time. Replacing a TWA or STEL value for some products is a Peak Limitation value (Peak): applies in this case. In addition to the exposure concentrations may be a subsidiary caution in such cases where the product is a skin sensitiser, represented as (Sen), where applies in this case.

Biological Limit Values (BLV)

Ingredients in this material do not have a Biological Limit Allocated.

Engineering Controls: Ventilation

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof equipment.

Personal Protective Equipment

Respiratory Protection: Where concentrations in air may approach or exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type 'A' filter material is considered suitable for this product.

Eye Protection: Always use safety glasses or a face shield when handling this product.

Skin/Body Protection: Always wear long sleeves, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical Value
Appearance	None	White milky liquid
Boiling Point/Range	°C	Approximately 100
Flash Point	°C	Not applicable
SG/Density (@ 15°C)	g/ml; kgm ⁻³	1.2
Vapour Pressure @ 20°C	kPa	Not available
Vapour Density @ 20°C	g/ml; kgm ⁻³	Not known
Autoignition Temperature	°C	Not applicable
Explosive Limits in Air	% vol/vol	Not applicable - Not applicable
Viscosity @ 20°C	cPs, mPas	1 Poise
Percent volatiles	% vol/vol	Not available
Acidity/alkalinity as pH	None	8.0-9.0
Solubility in Water	g/l	Miscible with water
Other solvents	-	Not applicable

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

10. STABILITY AND REACTIVITY

Chemical stability

This material is thermally stable when stored and used as directed.

Conditions to avoid

Elevated temperatures and sources of ignition.

Hazardous decomposition products

Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions

No known hazardous reactions.

Hazardous polymerisation

Oxides of carbon and nitrogen, smoke and other toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

This material is classified non-hazardous. No known adverse effects expected however ingestion of large amounts may cause vomiting and nausea.

Eye Contact

This material is classified non-hazardous. May be an eye irritant in sensitive individuals.

Skin Contact

This material is classified non-hazardous. Contact with skin may result in irritation in sensitive individuals.

Inhalation

This material is classified non-hazardous. Where this material is used in poorly ventilated area, at elevated temperatures or in confined spaces, vapour may cause irritation to mucous membranes and respiratory tract, headache and nausea.

Chronic Effects

This material has been classified as non-hazardous.

Other Health Effects Information

Toxicological Information

Oral LD₅₀: Not determined.

Dermal LD₅₀: Not determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity:

Fish Toxicity LC₅₀: No information available.

Daphnia Magna EC₅₀: No information available.

Blue-green algae: No information available.

Green algae: No information available.

Persistence/Biodegradability: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain product residue that may be harmful. Ensure that empty packaging is managed in accordance with Dangerous Goods regulations.

Special Precautions

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product should be treated and disposed through chemical waste treatment, or considered for use in recycling.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	None	UN No.	None	UN No.	None
Proper Shipping Name	Polyurethane Varnish	Proper Shipping Name	Polyurethane Varnish	Proper Shipping Name	Polyurethane Varnish
DG Class	Not applicable	DG Class	None	DG Class	None

Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Packing Group	None	Packing Group	None	Packing Group	None
Hazchem	Not applicable	Hazchem	None	Hazchem	None

Dangerous Goods Segregation

No special measures required.

15. REGULATORY INFORMATION

Country/Region: Australia

Inventory: AICS

Status: Listed

Poisons Schedule: Not applicable

16. OTHER INFORMATION

Reasons for Issue: New manufacturer information; changes and updates in multiple sections.

Abbreviations:

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

GHS: Global Harmonised System

IARC: International Agency for Research on Cancer

PPE: Personal Protective Equipment

N/R: Non-regulated

N/A: Not applicable

UN: United Nations

References:

- Supplier Safety Data Sheets
- <http://hsis.safework.gov.au/SearchHS.aspx> (January 17)
- Animal toxicology data: <http://chem.sis.nlm.nih.gov/chemidplus> (January 17)
- Ecotoxicology data: http://cfpub.epa.gov/ecotox/quick_query.htm (January 17)
- *Sax's Dangerous Properties of Industrial Materials*, Richard J Lewis Snr., pub. Canada (2005)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Durablex Paints Pty Ltd.
