



BERGER PAINTS TRINIDAD LIMITED  
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PORT OF SPAIN, TRINIDAD W.I  
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### 1 - Product Identification

Product Name: **Berger WOODTECH Polyurethane Satin Varnish**  
Product Description: Alkyd Based Gloss Clear  
Product Code: 5953

### 2 - Hazards Identification

HMIS Rating: Health = 1 Flammability = 2 Reactivity = 0

#### 2.1 Skin Contact

Frequent or prolonged contact may irritate and cause dermatitis  
Low order of toxicity  
Skin contact may aggravate an existing dermatitis condition

#### 2.2 Eye Contact

Slightly irritating but not injurious to eye tissue.

#### 2.3 Inhalation

High vapour/aerosol concentrations (attainable at elevated temperatures well above ambient) are irritating to the eyes and the respiratory tract and may cause headaches, dizziness, anaesthesia, drowsiness, unconsciousness and other central nervous system effect, including death.

### 3 - Composition

Component	CAS#	Concentration%
<b>Alkyd Resin</b> Urethane Modified Alkyd Resin White Spirit	Proprietary 64742-88-7	<b>87</b> 59 - 61 39 - 41
<b>Stoddard Solvent</b> (White Spirits)	8052-41-3	<b>10</b>
<b>Pigment</b> Silicon Dioxide Petroleum wax Water	112926-00-8 63232-60-7 7732-18-5	<b>3</b> 85 10 15
<b>Driers</b> Cobalt Carboxylate Calcium Zirconium Carboxylate	136-52-7 Proprietary 22464-99-9	<b>&lt; 1</b> ~80 ~50 75 - 85

### 4 - First Aid Measures



## Polyurethane Satin Varnish

### 4.1 Skin Contact

Flush immediately with large amounts of water, use soap if available. If irritation persists seek medical attention. Remove contaminated clothing and shoes and launder before reuse.

### 4.2 Eye Contact

Flush eyes immediately with large quantities of water for 15 minutes and seek medical attention.

### 4.3 Inhalation

Move victim to a ventilated area immediately. If coughing, difficulty in breathing or any other respiratory symptoms develop seek medical attention at once.

### 4.4 Ingestion

If ingested, do not induce vomiting. Seek medical attention immediately. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

## 5 - Fire Fighting Measures

### 5.1 Stability

Stable product, will not autoignite under normal conditions.  
Autoignition temperature of the white spirits is 504°F. Flammable limits: LEL=0.7; UEL=5.5 @ 77°F

### 5.2 Fire Fighting

Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire. Use foam, dry chemical or water spray to extinguish fire. Avoid spraying water directly into storage containers due to danger of boilover.

### 5.3 Advice to Fire Fighters

Incomplete combustion can yield carbon monoxide and toxic vapours. Wear self-contained breathing apparatus and protective suit.

## 6 - Accidental Release Measures

### 6.1 Land Spill

Remove all sources of ignition. Ventilate area. Absorb spill with an absorbent material such as sawdust, to eliminate focus of possible ignition, and place material into a closed container. Wear protective equipment during clean up. If large spillage occurs, dike the area to prevent this material from entering water systems or sewers. Warn authorities and residents of affected zones of fire and explosion danger. Prevent Contamination of soil, vegetation and subterranean water.

### 6.2 Water Spill

Remove all sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear.  
Remove from surface with suitable absorbents. If allowed by local and environmental authorities, sinking and/or suitable dispersants may be used in non-confined waters.  
Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

## 7 - Handling and Storage

### 7.1 Storage Temperature

**Polyurethane Satin Varnish**

Ambient

**7.2 Storage and Transport Pressure (mmHg)**

Atmospheric

**7.3 Storage and Handling**

Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place. Do not handle or store near open flame, heat or other sources of ignition. Protect material from direct sunlight.

Avoid prolonged or repeated inhalation of heated vapours or spray mists. Avoid prolonged or repeated skin contact. Excessive exposure to vapours or spray mists can result in headache, dizziness, uncoordination, nausea and loss of consciousness.

**8 - Exposure Controls/Personal Protection****8.1 Exposure Controls**

Use only with adequate ventilation. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

**8.2 Personal Protection**

Respiratory Protection: A canister type respirator must be worn to prevent inhalation of vapours and spray mists when the TLV or PEL is exceeded

Ventilation: General ventilation is required during normal use. Local ventilation may be required during certain operations to keep exposure levels of vapours and mists below the limits.

Protective Gloves/Clothing: Chemical resistant nitrile, neoprene or rubber gloves required. Wear protective clothing to prevent skin contact.

Eye Protection: Where contact is likely, wear safety glasses with side shields

**9 - Physical and Chemical Properties**

Physical State	Liquid
Colour	Clear
Specific Gravity	0.90 - 1.0 Kg/L
Solidification Point	N/A
Boiling Point (Range)	157 - 201°C (315 - 394°F)
Freezing Point	-76°C (-105°F)
Flash Point	43°C (109°F)
Ignition Temperature	260°C (500°F)
Water Solubility	Negligible
Viscosity	85 - 95 secs (B4 Ford cup)
Odour	Organic Dissolvent

**10 - Stability and Reactivity****10.1 Stability**

Stable



**Polyurethane Satin Varnish**

- 10.2 Reactivity**  
No data available
- 10.3 Hazardous Polymerization**  
Will not occur
- 10.4 Incompatibility**  
Avoid contact with strong oxidizing agents
- 10.5 Hazardous Decomposition Products**  
Incomplete combustion can yield carbon monoxide and toxic vapours

**11 - Toxicological Information**

Acute Toxicity – Not Listed  
Chronic Toxicity – Not Available

**12 - Ecological Information**

Ecotoxicity Data – Not Available

**13 - Disposal Considerations**

Use non-leaking containers, seal tight and label properly. Dispose of in accordance with applicable local, county, state and federal regulations.

**14 - Transportation Information**

- 14.1 Land Transport (ADR/RID)**  
ADR/RID Class: Flammable liquid  
Danger Code (Kemler): 30  
UN number: 1866  
Packaging Group: III  
Hazard label: 3
- 14.2 Maritime Transport (IMDG)**  
IMDG class: 3  
UN Number: 1866  
Hazard Label: 3  
Packaging Label: III  
EMS number: F-E, S-E  
Maritime Pollutant: No
- 14.3 Air Transport (ICAO-TI and IATA-DGR)**  
ICAO-TI/IATA-DGR: 3  
UN Number: 1866  
Hazard Label: 3  
Packaging Group: III  
Proper Shipping Name: Alkyd-Based Enamel Paint



**Polyurethane Satin Varnish**

**15 - Regulatory Information EU Regulations**

**15.1 Risk Phrases**

- R10 Flammable
- R66 Repeated exposure may cause skin dryness and cracking
- R67 Vapours may cause drowsiness and dizziness

**15.2 Safety Phrases**

- S61 Avoid release to the environment. Refer to special instructions/Safety Data Sheet

**16 - Other Information**

- S1/2 Keep locked up and out of reach of children.
- S27/28 Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water.
- S29/35 Do not empty into drains. This material and its container must be disposed of in a safe way.

*The information in this MSDS is given in good faith and to the best of our knowledge. It may not be valid for such material used in combinations with any other materials or in any process. No representation, warranty or guarantee is made due to its accuracy, reliability or complaints. We do not accept liability for any loss or damage that may occur from the use of this information.*