

# SAFETY DATA SHEET

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Version 1

## Section 1: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product identifier**

**Product Name** Polyurethane Varnish

**Description** Liquid

**Other means of identification**

**UN Number** 1866

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Intermediate Resin

**Details of the supplier of the safety data sheet**

**Manufacturer**

Norski Holdings Ltd  
10 Northpoint Street  
Plimmerton  
Wellington 5247  
New Zealand

**For further information, please contact**

**Contact Point** +64 (04) 233 6184

**E-mail address** Enquiries@norski.co.nz

**Emergency telephone number**

**Emergency Telephone** +64 0800 500 341

## Section 2: HAZARD(S) IDENTIFICATION

**Regulatory information** Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand

HSR002662

**EPA New Zealand HSNO approval code or group standard** Group Standard: Surface coatings and colourants (Flammable) Group Standard 2006.

**Dangerous Goods Class** 3 PG III

**GHS Classification**

<b>Flammable liquids</b>	Category 3 (HSNO - 3.1C)
<b>Aspiration Hazard</b>	Category 1 (HSNO -6.1E)
<b>Skin Irritant</b>	Category 2 (HSNO -6.3A)
<b>Serious Eye Irritant</b>	Category 2A (HSNO 6.4A)
<b>Specific target organ toxicity (repeated exposure)</b>	Category 1 (HSNO - 6.9A)
<b>Specific target organ toxicity (single exposure)</b>	Category 3 (HSNO - 6.9B)
<b>Chronic aquatic toxicity</b>	Category 2 (HSNO - 9.1B)

**Label elements**



Signal word     **Danger**

**Hazard Statements**

- H226 - Flammable liquid and vapour
- H304 May be fatal if swallowed and enters airways
- H316 -Causes mild skin irritation
- H319 -Causes serious eye irritation
- H335- May cause respiratory irritation
- H336 - May cause drowsiness or dizziness
- H372 - Causes damage to organs through prolonged or repeated exposure
- H411 - Toxic to aquatic life with long lasting effects

**Precautionary Statements – Prevention**

- Obtain special instructions before use
- Do not use until all safety precautions read and understood.
- Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/mist/vapours/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Avoid release to the environment
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Use explosion-proof electrical/ ventilating/ lighting/ equipment
- Wear protective gloves/protective clothing/eye protection/face protection
- Keep cool

**Precautionary Statements - Response**

- Get medical advice/attention if you feel unwell
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISONS INFORMATION CENTRE or doctor if you feel unwell
- IF SWALLOWED CALL NATIONAL POISONS CENTRE OR DOCTOR IMMEDIATELY
- In case of fire: Use CO2, dry chemical, or foam for extinction
- Collect spillage

**Precautionary Statements - Storage**

- Store in a well-ventilated place. Keep container tightly closed
- Store locked up

**Precautionary Statements - Disposal**

- Dispose of contents/container to an approved waste disposal plant

**Other hazards**



No hazard identified

**Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS**

**Substance**

Not applicable

**Mixture**

<u>Chemical Name</u>	<u>CAS No</u>	<u>Weight-%</u>
Naphtha, petroleum, hydrodesulfurized heavy	64742-82-1	30-<60
Mineral Turpentine	N/A	5%
Remainder non hazardous		

**Section 4: FIRST AID MEASURES**

For advice, contact the National Poisons Centre (Phone New Zealand: 0800 764 766) or a doctor.

**Swallowed**

If swallowed, do NOT induce vomiting. Rinse mouth. Get immediate medical advice. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Get immediate medical assistance.

**Skin Contact**

If skin contact occurs, remove contaminated clothing and wash skin with soap and water. If skin irritation occurs, get medical advice. Launder contaminated clothing before re-use.

**Eye Contact**

Hold eyelids apart and flush the eye continuously with running water for 15 minutes. Remove contact lenses after 5 minutes if present, and easy to do. Continue flushing. Get immediate medical attention if irritation persists.

**Inhalation**

Move the person to fresh air immediately. Keep warm and at rest until recovered. If respiratory irritation, dizziness, nausea or unconsciousness occurs, get immediate medical assistance. Begin artificial respiration if breathing has stopped and get immediate medical assistance.

**First Aid facilities**

Provide eye baths and safety showers close to areas where splashing may occur.

**Note to Doctor/Physician**

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

**Self-protection of the first aider**

Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

**Section 5: FIREFIGHTING MEASURES**

**General Advice**



Flammable liquid and vapour. 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**

Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol-resistant foam. Water spray.

### **Unsuitable extinguishing media**

Do not use water jetstream

### **Specific hazards arising from the chemical**

Flammable. Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### **Hazards from combustion products**

Smoke, fume, carbon dioxide and carbon monoxide and incomplete combustion products.

### **Special protective actions for fire-fighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

### **Hazchem code**

•3YE.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take action to prevent static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

### **For emergency responders**

Use personal protection recommended in Section 8.

### **Environmental precautions**

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### **Methods and material for containment and cleaning up**

#### **Methods for containment**

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dam far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Use flame proof pumping system or absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

#### **Methods for cleaning up**

Take action to prevent static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

### **Precautions to prevent secondary hazards**

#### **Prevention of secondary hazards**

Clean contaminated objects and areas thoroughly observing environmental regulations.

#### **Reference to other sections**

See section 8 for more information. See section 13 for more information.

## Section 7: HANDLING AND STORAGE

### Precautions for safe handling

#### **Advice on safe handling**

Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharges. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Wash hands before breaks and after work. Wash contaminated clothing before re-use.

### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e. pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store separately.

#### **Incompatible materials**

None known based on information supplied.

## Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Control parameters

#### **Exposure Limits**

#### **Exposure Standards Mineral Turpentine**

The time-weighted average concentration (TWA) is the highest allowable exposure concentration in an eight-hour day for a five-day working week.

The short-term exposure limit (STEL) is the maximum allowable exposure concentration at any time.

WorkSafe has set workplace limits (WES) for components in this product.

Cumene SKIN TWA: 125 mg/m<sup>3</sup> (925 ppm); STEL: 375 mg/m<sup>3</sup> (75 ppm)

Naphthalene TWA: 52 mg/m<sup>3</sup> (10 ppm); STEL: 79 mg/m<sup>3</sup> (15 ppm)

Ethylbenzene TWA: 434 mg/m<sup>3</sup> (100 ppm); STEL: 543 mg/m<sup>3</sup> (125 ppm)

The Toxic Exposure Limit in Air – TEL (Air): Not available

The Toxic Exposure Limit for Skin – TEL (Skin): Not available

The Toxic Exposure Limit for Drinking Water – TEL (Drinking Water): Not available

#### **Biological Exposure Limit Values**

None established

#### **Biological occupational exposure limits**

Not applicable

### Appropriate engineering controls

#### **Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Tight sealing safety goggles

**Skin and body protection**

Antistatic footwear. Wear fire resistant or flame retardant clothing which is chemical resistant with long sleeves and long trousers or coveralls and enclosed safety footwear or boots. Gloves can be made of plastic rubber including nitrile.

**Respiratory protection**

Where respiratory protection is required, use a respirator selected and in accordance with AS/NZS 1715 and AS/NZS 1716.

**Environmental exposure controls**

Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained. Prevent product from entering drains.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**Physical state** liquid  
**Appearance** clear  
**Colour** amber  
**Odour** Slight  
**Odour threshold** No information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks •Method</u></b>
<b>pH</b>		Not applicable
<b>Melting point / freezing point</b>		No information available
<b>Boiling point/boiling range</b>	147 - 199 °C	
<b>Flash point</b>	36 °C	Tag Closed Cup
<b>Evaporation rate</b>	0.16	
<b>Flammability (solid, gas)</b>		No information available
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	7.0 %	
<b>Lower flammability limit:</b>	0.6 %	
<b>Vapour pressure</b>	8	hPa, 40°C
<b>Vapour density</b>	4.5	
<b>Relative density</b>	0.89	
<b>Water solubility</b>		insoluble
<b>Solubility(ies)</b>	-	No information available
<b>Partition coefficient</b>		No information available
<b>Auto-ignition temperature</b>		No information available
<b>Decomposition temperature</b>		No information available
<b>Kinematic viscosity</b>	337 mm <sup>2</sup> /s	
<b>Dynamic viscosity</b>	> 300 mPa s	No information available
<b>Explosive properties</b>	No information available	
<b>Oxidising properties</b>	No information available	

**Other Information**

**VOC Content (%)** 0.1313  
**Density** No information available

\* This information may be derived from the components in the preparation.

## Section 10: STABILITY AND REACTIVITY

### **Chemical stability**

Stable at room temperature and pressure.

### **Conditions to avoid**

Heat, sparks, open flames and other ignition sources; incompatible materials (natural rubber, butyl rubber, EPDM, polystyrene).

### **Hazardous decomposition products**

No decomposition products except on burning. See "Fire Fighting Measures".

### **Hazardous reactions**

Oxidizing agents, mineral acids, halogenated organic compounds.

### **Hazardous Polymerisation**

Will not occur.

## Section 11: TOXICOLOGICAL INFORMATION

### **Acute Effects**

#### **Ingestion**

Minimally toxic. Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema.

#### **Eye Contact**

This product is seriously irritating to the eyes with permanent damage resulting.

#### **Skin Contact**

This product is mildly irritating to the skin with prolonged exposure. It may result in dryness and cracking.

#### **Inhalation**

May be irritating to eyes, nose, throat and lungs. May cause central nervous system depression.

### **Chronic Effects**

Short term single exposure may cause drowsiness and dizziness.

### **Other Health Effects Information**

None

### **Toxicological Information Mineral Turpentine**

Naphthalene:

Oral LD<sub>50</sub> 490 mg/kg (rat)

Dermal LD<sub>50</sub> 1120 mg/kg (rat)

Ethylbenzene:

Oral LD<sub>50</sub> 3280 mg/kg (rat)

Inhalation LC<sub>50</sub> (4 hr) 18 mg/L (rat)

See section 16 for terms and abbreviations

## Section 12: ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Aquatic Toxicity:**

Product classified as toxic in the aquatic environment with long-lasting effects.

#### **Persistence/ Biodegradability:**

Expected to be biodegradable. Not expected to significantly bioaccumulate. Oxidises rapidly by photochemical reactions in air.

#### **Mobility:**





This product is highly volatile and partition rapidly in air. Not expected to partition to sediment and wastewater solids.

**Exposure limits:**

The Environmental Exposure Limit in Air – EEL (Air): Not available.

The Environmental Exposure Limit for Water – EEL (Water): Not available.

**Section 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 and HSNO regulations.

**Special Precautions**

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be incinerated in a regulated facility. In the absence of a designated industrial incinerator, this product should be treated and disposed through chemical waste treatment, or considered for use in solvent recycling.

**Section 14 : TRANSPORT INFORMATION**

**Road transport**

<b>UN Number</b>	UN1866
<b>Proper shipping name</b>	RESIN SOLUTION
<b>Description</b>	UN1866, RESIN SOLUTION, 3, III
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Environmental hazard</b>	Yes
<b>Special Precautions for users</b>	223, *
<b>Hazchem code</b>	•3YE.
<b>IERG</b>	14

**IMDG**

<b>UN/ID no</b>	UN1866
<b>Proper shipping name</b>	RESIN SOLUTION
<b>Description</b>	UN1866, RESIN SOLUTION (Naphtha, petroleum, hydrodesulfurized heavy and Mineral Turpentine), 3, III, (36°C) C.C.), Marine pollutant
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>EmS-No</b>	F-E, S-E
<b>Special Precautions for users</b>	223, 955
<b>Marine pollutant</b>	This material meets the definition of a marine pollutant

**Transport in Bulk According to Annex II of MARPOL and the IBC CODE**

No information available

**IATA**

<b>UN/ID no</b>	UN1866
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Proper shipping name	Resin solution
Description	UN1866, Resin solution, 3, III
Hazard Class	3
Packing Group	III
ERG Code	3L

**Section 15: REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**New Zealand  
Regulatory information**

**EPA New Zealand HSNO approval code or group standard**

HSR002662 Group Standard: Surface Coatings and Colourants (Flammable) Group Standard 2006.

See the Group Standard for trigger quantities for HSNO Location Test Certificates, HSNO Approved Handler Certificates, HSNO Signage, Fire Extinguishers, Signage, Emergency Response, Secondary Containment and Hazardous Atmosphere Zones.

**Section 16: ANY OTHER RELEVANT INFORMATION**

Revision Date	14-Aug-2017
Revision Note	New Format
Legend Section	

**8: EXPOSURE  
CONTROLS  
AND  
PERSONAL  
PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

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**End of Safety Data Sheet**