SAFETY DATA SHEET

Issue Date 14-Aug-2017 **Revision Date** 14-Aug-2017 **Version** 1

Section 1: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier

Product Name Norski Timber Sealer Base

Description Clear colourless liquid

Other means of identification

UN Number 1866

Recommended use of the chemical and restrictions on use

Recommended Use Sealing wood and damp proofing – boats, bathrooms, wood areas prone to moisture. Use with timber sealer hardener.

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

HSNO Classification:

HSNO CLASSIFICATION	GHS
3.1C Flammable Liquid	Flammable Liquid Category 3
6.1D Toxic (Dermal, Oral & Inhalation)	Acute Toxicity Category 4 (Oral Dermal Inhalation)
6.3A Skin Irritant	Skin Corrosion/ Irritation Category 2
6.4A Eye Irritant	Serous Eye Damage/Eye Irritation Category 2A
6.5B Skin Sensitiser	Skin Sensitiser Category 1
6.8B Suspected Human Reproductive Toxicant	Reproductive Toxicity Category 2
6.9B Suspected Target Organ Toxic	Single & Repeated Target Organ Toxicity Category 2
9.1D Harmful to the Aquatic Environment	
9.3C Toxic to Terrestrial Vertebrates	

EPA New Zealand Approval Code: Surface Coatings and Colourants (Flammable) Group Standard 2017 - HSR002662

Signal Word: **DANGER**

Label elements

Hazard Statements:	
H226	flammable liquid and vapour
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways
H316	Causes mild skin irritation
H319	Causes serious eye irritation
H361	Suspected of Damaging Fertility or the Unborn Child
H373	May cause damage to organs through prolonged or repeated exposure

Precautionary Statements:

P102	Keep out of reach of children
P103	Read label before use
P210	Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P233	Keep container tightly closed
P240	Ground container and receiving equipment
P241	Use explosion-proof equipment
P242	Use non-sparking tools
P243	Take precautionary measures against static discharge
P260	Do not breathe gas/mist/vapours spray
P262	Do not get in Eyes, on skin or clothing
P264	Wash hands and exposed skin thoroughly after handling
P280	Wear protective gloves and eye/face protection

Response Statements:

	If medical advice is needed, have product container or label at hand
	Call a POISON CENTRE or doctor if you feel unwell
P101	IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
P312	
P301 +P310	If on Skin or Hair Remove or take off immediately all contaminated clothing. Rinse Skin with Water/Shower.
P303, 361 & 353	If inhaled call a poison centre or Dr or Physician if you feel unwell
P304 & 312	Do NOT induce vomiting.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P331	
P305 + P351 + P338	If eye irritation persists: Get medical advice
	If skin irritation occurs: Get medical advice
P337 + P313	
P332 + P313	

Storage Statements:

P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Disposal Statements:

P501 Dispose of product and containers in accordance with local regulations

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Ingredient	CAS Number	Proportion (% w/w)
Xylene	**1330-20-7**	**25%**
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	**25068-38-6**	**75%**

Storage Statements:

P403 + P235 Store in a well-ventilated place. Keep cool.

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Disposal Statements:

P501 Dispose of product and containers in accordance with local regulations

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Section 4: FIRST AID MEASURES

If Swallowed

If swallowed, do NOT induce vomiting. Rinse mouth. Begin artificial respiration if the victim is not breathing.
Use mouth to nose rather than mouth to mouth. Obtain medical attention.
If vomiting occurs spontaneously, ensure persons hips higher than head to avoid aspiration into lungs.

Skin Contact

If skin contact occurs, remove contaminated clothing and flush skin with running water. If irritation persists, get medical advice.

Eye Contact

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

Inhalation

Move the victim to fresh air immediately. Keep warm and at rest until recovered. Begin artificial respiration if breathing has stopped. Get medical attention.

First Aid facilities

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

Medical Attention

Treat according to symptoms. Causes nervous system depression. Gastric lavage may be indicated if ingested. Do not wait for symptoms to develop. General measures should be taken to control acidosis and maintain urine output.

Highly 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. Vapours are heavier than air so able to spread along ground and distant ignition is possible.

Suitable extinguishing media: Alcohol resistant foam, water spray or fog. On small fires may use dry chemical powder, carbon dioxide, sand or earth. Keep adjacent containers cool by spraying with water. Do not use water jet.

Hazards from combustion products: Carbon dioxide and carbon monoxide.

Precautions for fire fighters and special protective equipment: Full protective clothing and self-contained breathing apparatus.

Hazchem Code: 3YE

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Flammable liquid and vapour. Avoid contact with spilt material. Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment vessel. Prevent any vapours from building up in confined areas. Vapours heavier than air and can spread across the ground. Ensure that drain valves are closed at all times. Clean up and report spills immediately or accidental release immediately to relevant authorities according to applicable regulations.

Methods and materials for containment:

Major Land Spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard.
- Prevent product from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Do not walk through or touch spilled material.
- Shut off the source of the spill if 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 groundwater.
- Contain, absorb or cover the spilled liquid with dry sand or earth, or other non-combustible material.
- A vapour-supressing foam may be used to reduce vapour
- Recover by pumping – use non-sparking tools, 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.
- 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”.

Section 7: HANDLING AND STORAGE

Precautions for safe handling:

This product is flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Material will accumulate static charge. Use grounding leads to avoid discharge (electrical spark).

Conditions for safe storage:
Store in a cool, dry well ventilated place away from direct sunlight. Do not pressurise, cut, heat or weld containers - residual vapours are highly flammable. This product will fuel a fire in progress.

Incompatible materials:
Oxidising Agents, Metals Zinc Tin Aluminium

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Health Exposure Standards:

Workplace Exposure Standards (WES), have been set by Worksafe NZ for Xylene Only

	WES-TWA	WES-STEL
	50 ppm (217 mg/m^3)	

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 ventilation equipment.

Personal Protective Equipment:
Respiratory Protection: Where concentrations in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask suitable for organic gases and vapours (boiling point >65 ^{0}C) to protect from overexposure by inhalation. A type “A” filter material is considered suitable for this product.

Eye protection:
Always use chemical splash goggles.

Skin/ Body Protection:
Always wear chemical resistant clothing with long sleeves and safety shoes/boots when handling this product.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear, colourless liquid
Boiling Point/ Range	°C	79 – 80.5
Flash Point	°C	25
Density @ 20°C	g/m^3	0.804 – 0.806
Vapour Pressure @ 20°C	Pa	9500
Vapour Density @ 20°C	kPa	2.4
Autoignition Temperature	°C	515
Explosive Limits in Air	% by vol	1.8 – 11.5
Viscosity @ 20°C	cSt	Not applicable
Volatiles	% vol/vol	100
Volatile organic carbon content	%	66.6
Evaporation rate	nBuAc = 1	3.7
Solubility in water	g/L	Miscible

Section 10: STABILITY AND REACTIVITY

Chemical stability: Stable at room temperature and pressure

Conditions to avoid: Sources of heat and ignition, open flames. Contact with strong oxidising agents.

Hazardous decomposition products:

Explosive hydrogen gas can be liberated on contact with metals, such as zinc, tin or aluminium. Hydrogen gas can result in explosive hazards in confined spaces.

Hazardous reactions: Strong oxidisers, metals and heat

Section 11: TOXICOLOGICAL INFORMATION

Acute Effects:
Ingestion
May be harmful if swallowed. Ingestion of large amounts of product will result in central nervous system depression with symptoms such as headaches, dizziness, hallucinations, euphoria, tingling of the extremities, vomiting and possible loss of consciousness. Aspiration to the lungs may cause chemical pneumonitis which may be fatal.

Eye Contact
The liquid and vapour is irritating to eyes and may cause inflammation. Repeated or prolonged exposure may produce conjunctivitis.

Skin Contact

This product is irritating to the skin and prolonged or repeated exposure may result in dryness and cracking of skin. . May cause an allergic skin reaction.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Inhalation

May be irritating to respiratory system. Inhalation of high concentrations may result in nervous system depression which can lead to dizziness, headaches, nausea, vomiting and loss of appetite.

Chronic Effects

Ingestion of this prod result in liver or kidney damage.
Suspected of causing damage to unborn children and foetal development

Other Health Effects Information

The effects of this product in combination with n-hexane are potentiated (greatly increased). This means that the effects suffered by ingestion or inhalation will be increase or experienced more quickly.

Toxicological Information:

Acute toxicity

Hazardous ingredient name

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

LD50	Oral	Rat	30.000 mg/kg
LD50	Dermal	Rat	> 1.200 mg/kg

TOXICOLICAL INFORMATION.

XYLENE

Eyes: SPECIES: Rabbit

RESULT: The test substance was applied at 0.1 ml to the conjunctival sac of one eye of each of 6 rabbits (sex not reported) Mild iritis was observed in most eyes at 1 hour; slight corneal opacity was observed in 2 eyes at 24 hours, and 1 eye at 48 hours. Moderate conjunctival irritation was present in most eyes at 1 and 24 hours, but was slight at 48 and 72 hours. All eyes were normal by 7 days.

Skin: Irritating to skin

Ingestion: SPECIES: Mouse ;ENDPOINT: LD50 ;VALUE: 1590 mg/kg

EndPoint:
Primary Organ: Neurotoxicity (nervous system)
The major target organ is the nervous system. At lower levels, around and somewhat above the TLV, reversible neurobehavioural effects are the first to be observed. These can be of concern as some, e.g. impaired balance and reaction time, may confer a greater risk of work-related injury [INCHEM]
Inhalation: Inhalation Form: vapour

SPECIES: Rat ;ENDPOINT: LC50 ;VALUE: 6350 ppm

EndPoint:

Primary Organ: Inhalation of xylenes at concn of 435-1300 mg/cu m for 15 min to 6 hr/day for 4 days results in CNS disturbances including changes in numerative ability, reaction time, short-term memory and electroencephalograph

Section 12: ECOLOGICAL INFORMATION

XYLENE

9.1D SPECIES: Palaemonetes pugio (Crustacea) ;TYPE OF EXPOSURE: (crustacean) DURATION: 48 hr ;ENDPOINT: LC50 ;VALUE: 8500ug/l (= 8.5mg/l)
Bio accumulation : no
Rapidly degradable :yes

4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN COPOLYMER

Environmental effects

This product shows a low bioaccumulation potential.This material is toxic to aquatic life with long lasting effects.

SECTION 13 DISPOSAL CONSIDERATIONS

SECTION 14 TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No	1866	UN No	1866	UN No	1866
Proper Shipping Name	RESIN SOLUTION FLAMMABLE	Proper Shipping Name	RESIN SOLUTION FLAMMABLE	Proper Shipping Name	RESIN SOLUTION FLAMMABLE
DG Class	3	DG Class	3	DG Class	3
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Pack Group	III	Pack Group	III	Pack Group	III
Hazchem	3WE	Hazchem	3WE	Hazchem	

Dangerous Goods Segregation

This product is classified as Dangerous Goods Class 3, Packing Group III

Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

Section 15: REGULATORY INFORMATION

HSNO Class 3.1C

500 Litres in Containers greater than 5 Litres Closed requires Compliance Location Certificate under Health and Safety At Work(Hazardous Substances) Regulations 2017.

250 Litres in Containers greater than 5 Litres Open requires Compliance Location Certificate under Health and Safety At Work(Hazardous Substances) Regulations 2017.

1500 Litres in Containers up to and including 5 Litres Closed requires Compliance Location Certificate under Health and Safety At Work(Hazardous Substances) Regulations 2017.

250 Litres in Containers up to and including 5 Litres Open requires Compliance Location Certificate under Health and Safety At Work(Hazardous Substances) Regulations 2017.

HSWA Signage required at 1000 Litres. Health and Safety At Work(Hazardous Substances) Regulations 2017.

Fire Extinguishers required at 500 Litres Health and Safety At Work(Hazardous Substances) Regulations 2017.

HSWA Emergency Response Plan required at 10,000 Litres Health and Safety At Work(Hazardous Substances) Regulations 2017.

Under Health and Safety At Work(Hazardous Substances) Regulations 2017 Segregate Class 3.1C from HSNO Classes 2, 4 & 5.

Training is required under Regulation 4.5 of the Health and Safety At Work(Hazardous Substances) Regulations 2017.

Section 16: ANY OTHER RELEVANT INFORMATION

Revision Date	Sept 2018
Revision Note	New Format

Key or legend to abbreviations and acronyms used in the safety data sheet

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End of Safety Data Sheet