

**1. Identification of Substance & Company**

**Product**

<b>Product name</b>	Water Cut-off mastic	
<b>Other names</b>	None assigned	
<b>Product code</b>	STP870	
<b>HSNO approval</b>	HSR002662	
<b>Approval description</b>	Surface coatings and Colourants (Flammable) Group Standard 2017	
<b>UN number</b>	1133	
<b>DG class</b>	3	
<b>Proper Shipping Name</b>	ADHESIVES	
<b>Packaging group</b>	II	
<b>Hazchem code</b>	3YE	
<b>Uses</b>	Elastomeric sealer for EPDM and TPO Single-Ply Membranes	

**Company Details**

<b>Company</b>	<b>Viking Roofspec</b>	
<b>Physical Address</b>	80 Alexander Crescent	PO Box 14 451
	Otara	Panmure
	Auckland	Auckland 1741
	New Zealand	New Zealand
<b>Telephone</b>	0800 729 799	
<b>Fax</b>	0800 729 788	
<b>Website</b>	www.vikingroofspec.co.nz	

**Emergency Telephone Number: 0800 764 766**

**2. Hazard Identification**

**Approval**

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002662, Surface coatings and Colourants (Flammable) Group Standard 2017). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Minimum Degrees of Hazard) Notice 2017.

**Classes**

**Hazard Statements**

3.1B	H225 - Highly flammable liquid and vapour.
6.3B	H316 - Causes mild skin irritation.
6.9B	H371 - May cause damage to organs through prolonged or repeated exposure.
9.1B	H411 - Toxic to aquatic life with long lasting effects.

**SYMBOLS**

**DANGER**



**Other Classifications**

This substance does contain silica (quartz) which is classed as a carcinogen (6.7A) if in an inhalable form (e.g. fine dust). However this component is bound by the polymer portion of the sealant. The only way this component would be released is through incineration. This product does not trigger carcinogenicity classifications.

**Precautionary Statements**

- P103 - Read label before use.
- P210 - Keep away from ignition sources. No smoking.
- P233 - Keep container tightly closed.
- P240 - Ground/bond container and receiving equipment.
- P241 - Use explosion-proof electrical equipment.
- P242 - Use only non-sparking tools.
- P243 - Take precautionary measures against static discharge.
- P260 - Do not breathe vapours.

P264 - Wash hands thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P273 - Avoid release to the environment.  
 P280 - Wear protective gloves/eye/face protection.  
 P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P332+P313 - If skin irritation occurs: Get medical advice/ attention.  
 P308+P313 - IF exposed or concerned: Get medical advice/ attention.  
 P391 - Collect spillage.  
 P403+P235 - Store in a well-ventilated place. Keep cool.  
 P405 - Store locked up.

### 3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
solvent naphtha (petroleum), light aliphatic	64742-89-8	10-30%
polybutene	trade secret	10-30%
hydrous clay	proprietary	3-7%
hydrotreated paraffinic oil	trade secret	1-5%
silica compound	proprietary	1-5%
polyphenol antioxidant	trade secret	<0.1%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

### 4. First Aid

#### General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

**Recommended first aid facilities** Ready access to running water is required. Accessible eyewash is required.

#### Exposure

**Swallowed** Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.  
**Eye contact** If product gets in eyes, wash material from them with running water for several minutes. If symptoms persist, seek medical advice.

**Skin contact** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/ attention.

**Inhaled** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

#### Advice to Doctor

Treat symptomatically

### 5. Firefighting Measures

**Fire and explosion hazards:** Vapours may form an explosive mixture in air which can be ignited by many sources such as pilot lights, open flames, electrical motors, switches and static electricity.

**Suitable extinguishing substances:** Carbon dioxide, extinguishing powder, foam.

**Unsuitable extinguishing substances:** Unknown.

**Products of combustion:** Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.

**Protective equipment:** Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.

**Hazchem code:** 3YE

**6. Accidental Release Measures**

<b>Containment</b>	If greater than 1000L is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent discharge to storm water.
<b>Emergency procedures</b>	In the event of spillage alert the fire brigade to location and give brief description of hazard. Stop the source of the leak, if safe to do so. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately).
<b>Clean-up method</b>	Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
<b>Disposal</b>	Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.
<b>Precautions</b>	Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

**7. Storage & Handling**

<b>Storage</b>	Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10. Location compliance certificates must be available if storing >100L (containers >5L), 250L (containers ≤5L), 50L (in use). Containers (and outer packaging) must bear the prescribed labelling, including the Hazchem code, UN number, flammability warning and name of contents.
<b>Handling</b>	Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**8. Exposure Controls / Personal Protective Equipment**

**Workplace Exposure Standards**

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m<sup>3</sup> for respirable particulates and 10mg/m<sup>3</sup> for inhalable particulates when limits have not otherwise been established.

NZ Workplace Exposure Stds	Ingredient	WES-TWA*	WES-STEL
	Solvent naphtha (petroleum), light aliphatic	data unavailable	data unavailable
	hydrotreated paraffinic oil	5mg/m <sup>3</sup>	data unavailable
	crystalline silica	0.1mg/m <sup>3</sup> (respirable dust)	data unavailable

\* These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

**Engineering Controls**

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

**Personal Protective Equipment**

<b>Eyes</b>	Protective eyewear is not normally necessary when using this product. However, it always prudent to use protective eyewear if splashes are likely.
<b>Skin</b>	If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or sensitive skin), gloves may be helpful. If you suffer from dermatitis type skin conditions, use gloves. Nitrile gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use.
<b>Respiratory</b>	A respirator when airborne concentrations approach the WES (section 8). Use a respirator with an organic vapour cartridge. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

**WES Additional Information**

Not applicable

**9. Physical & Chemical Properties**

<b>Appearance</b>	Viscous grey liquid
<b>Odour</b>	mild solvent
<b>pH</b>	Not available
<b>Vapour pressure</b>	11.25mmHg
<b>Viscosity</b>	1200000cps
<b>Boiling point</b>	119-141°C
<b>Volatile materials</b>	VOC 250g/L
<b>Freezing / melting point</b>	no data
<b>Solubility</b>	Negligible
<b>Specific gravity / density</b>	1.2-1.3 (relative)
<b>Flash point</b>	10°C
<b>Danger of explosion</b>	no data
<b>Auto-ignition temperature</b>	246°C
<b>Upper &amp; lower flammable limits</b>	LEL: 0.9%, UEL: 6.7%
<b>Corrosiveness</b>	non corrosive

**10. Stability & Reactivity**

<b>Stability</b>	Stable
<b>Conditions to be avoided</b>	Flammable substance. Keep away from sources of ignition at all times. Containers should be kept closed in order to avoid contamination.
<b>Incompatible groups</b>	Acids and bases and strong oxidisers.
<b>Substance Specific Incompatibility</b>	none known
<b>Hazardous decomposition products</b>	Oxides of carbon.
<b>Hazardous reactions</b>	none known

**11. Toxicological Information**

**Summary**

IF SWALLOWED: if large quantities are swallowed: symptoms include nausea and vomiting.  
 IF ON SKIN: repeated and prolonged exposure may cause skin irritation and dermatitis due to degreasing properties of the solvent.  
 IF INHALED: vapours may cause dizziness and drowsiness. High concentrations may cause central nervous system depression, headaches, dizziness, tiredness and incoordination and in extreme cases loss of consciousness.

**Supporting Data**

<b>Acute</b>	<b>Oral</b>	Solvent Naphtha possesses low acute toxicity for mammals, with LD <sub>50</sub> 's >5000mg/kg. However, it is possible that if Solvent naphtha is taken into the mouth, it would be aspirated into the lungs and might then cause pneumonitis. It is therefore classified 6.1E (aspiration), however the viscosity of this product is very low.
	<b>Dermal Inhaled</b>	No evidence of acute dermal toxicity. Using LC <sub>50</sub> 's for ingredients, the calculated LC <sub>50</sub> (inhalation, rat) for the mixture is >20mg/L. Data considered includes: Solvent naphtha (petroleum), light aliph. >20mg/L (estimated)
	<b>Eye</b>	The mixture is not considered to be an eye irritant.
	<b>Skin</b>	The mixture is considered to be a mild skin irritant. Prolonged or repeated skin exposure

<b>Chronic</b>	<b>Sensitisation</b> <b>Mutagenicity</b> <b>Carcinogenicity</b>	<p>over a long period of time can result in severe irritant dermatitis.</p> <p>No ingredient present at concentrations &gt; 0.1% is considered a sensitizer.</p> <p>No ingredient present at concentrations &gt; 0.1% is considered a mutagen.</p> <p>This hydrocarbon solvent is considered carcinogenic by some agencies (based on possible aromatic hydrocarbon concentration), however white spirits is not listed by IARC and not classified by EPA as carcinogenic. Some hydrocarbon solvents are considered carcinogenic – particularly those that contain aromatic compounds (benzene, ethyl benzene).</p>
	<b>Reproductive / Developmental</b> <b>Systemic</b> <b>Aggravation of existing conditions</b>	<p>No ingredients is classed as a reproductive/developmental toxicant.</p> <p>No ingredient present at concentrations &gt; 1% is considered a target organ toxicant.</p> <p>None known.</p>

## 12. Ecological Data

### Summary

This mixture may be toxic towards aquatic organisms with long lasting effects.

### Supporting Data

<b>Aquatic</b>	Using EC <sub>50</sub> 's for ingredients, the calculated EC <sub>50</sub> for the mixture is between 1 mg/L and 10 mg/L. Data considered includes: Solvent naphtha (petroleum), light aliph. no data (see other hydrocarbons).
<b>Bioaccumulation</b>	No data
<b>Degradability</b>	No data
<b>Soil</b>	No evidence of soil toxicity
<b>Terrestrial vertebrate</b>	See acute toxicity
<b>Terrestrial invertebrate</b>	No evidence of ecotoxicity towards terrestrial invertebrates.
<b>Biocidal</b>	no data

## 13. Disposal Considerations

<b>Restrictions</b>	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
<b>Disposal method</b>	Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.
<b>Contaminated packaging</b>	Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible reuse or recycle packaging.

## 14. Transport Information

### Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

<b>UN number:</b>	1133	<b>Proper shipping name:</b>	ADHESIVES
<b>Class(es)</b>	3	<b>Packing group:</b>	II
<b>Precautions:</b>	Flammable liquid Ecotoxic.	<b>Hazchem code:</b>	3YE

## 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002662, Surface coatings and Colourants (Flammable) Group Standard 2017.  
 All ingredients appear on the NZIoC.

**Specific Controls**

Key workplace requirements are:

SDS	To be available within 10 minutes in workplaces storing any quantity.
Inventory	An inventory of all hazardous substances must be prepared and maintained.
Packaging	All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied
Labelling	Must comply with the Hazardous Substances (Labelling) Notice 2017.
Emergency plan	Required if > 1000L is stored.
Certified handler	Required if > not required is handled or stored.
Tracking	This substance is required to be tracked if > not required is present.
Bunding & secondary containment	Required if > 1000L is stored.
Signage	Required if > 250L is stored in any one location.
Location compliance certificate	Required if > 100L (containers >5L), 250L (containers ≤5L), 50L (in use) is stored in any one location.
Flammable zone	Must be established if > 100L (closed containers), 25L (decanting), 5L (open occasionally), 1L (in use), stored in any one location is stored in any one location.
Fire extinguisher	If > 250L present.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

**Other Legislation**

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

**16. Other Information**

**Abbreviations**

<b>Approval Code</b>	Approval HSR002662, Surface coatings and Colourants (Flammable) Group Standard 2017 Controls, EPA. <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
<b>CAS Number</b>	Unique Chemical Abstracts Service Registry Number
<b>Ceiling</b>	Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.
<b>Controls Matrix</b>	List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).
<b>EC<sub>50</sub></b>	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
<b>EPA</b>	Environmental Protection Authority (New Zealand)
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
<b>HSNO</b>	Hazardous Substances and New Organisms (Act and Regulations)
<b>IARC</b>	International Agency for Research on Cancer
<b>LEL/UEL</b>	Lower Explosive Limit/ Upper Explosive Limit
<b>LD<sub>50</sub></b>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
<b>LC<sub>50</sub></b>	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
<b>MSDS (SDS)</b>	Material Safety Data Sheet (or Safety Data Sheet)
<b>NZIoC</b>	New Zealand Inventory of Chemicals
<b>PES</b>	Prescribed Exposure Standard means a WES or a biological exposure standard that is prescribed in a regulation, a safe work instrument or an approval under HSNO (including group standards).
<b>STEL</b>	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
<b>TWA</b>	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
<b>UN Number</b>	United Nations Number
<b>WES</b>	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone.

**References**

<b>Data</b>	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
<b>Controls</b>	EPA notices, <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> , Health and Safety at Work (Hazardous Substances) Regulations 2017, <a href="http://www.legislation.govt.nz">www.legislation.govt.nz</a>
<b>WES</b>	The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site – <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a> .
<b>Other References:</b>	Suppliers SDS, EU ECHA, ingredients SDS's, ChemIDplus

**Review**

<b>Date</b>	<b>Reason for review</b>
July 2018	Not applicable – new SDS

**Disclaimer**

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). Full formulation details were not available to Datachem LTD. This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email [info@datachem.co.nz](mailto:info@datachem.co.nz) or phone: **+64 9 940 30 80**.

