

## 1. Identification of Substance & Company

### Product

<b>Product name</b>	Enviroclad Adhesive
<b>Other names</b>	Sure-weld Bonding Adhesive
<b>Product code</b>	STP000
<b>HSNO approval</b>	HSR002669
<b>Approval description</b>	Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard 2017
<b>UN number</b>	1133
<b>Proper Shipping Name</b>	ADHESIVE
<b>DG class</b>	3
<b>Packaging group</b>	II
<b>Hazchem code</b>	3YE
<b>Uses</b>	contact adhesive

### Company Details

<b>Company</b>	<b>Viking Roofspec</b>	
<b>Address</b>	80 Alexander Crescent Otara Auckland New Zealand	PO Box 14 451 Panmure Auckland 1741 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 has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002669, Surface Coatings and Colourants (Flammable, Toxic [6.7]) 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.
6.1E (aspiration)	H304 - May be fatal if swallowed and enters airways.
6.1D (oral)	H302 - Harmful if swallowed.
6.3A	H315 - Causes skin irritation.
6.4A	H320 - Causes eye irritation.
6.5B	H317 - May cause an allergic skin reaction.
6.7B	H341 - Suspected of causing cancer.
6.8B	H361 - Suspected of damaging fertility or the unborn child. (state route if known)
6.9B	H373 - May cause damage to organs through prolonged or repeated exposure.
6.9B (narcotic)	H336 - May cause drowsiness or dizziness.
9.1B	H411 - Toxic to aquatic life with long lasting effects.
9.3C	H433 - Harmful to terrestrial vertebrates.

### SYMBOLS

**DANGER**



### Other Classifications

There are no other Classifications that are known to apply.

**Precautionary Statements**

- P101 - If medical advice is needed, have product container or label at hand.
- P102 - Keep out of reach of children.
- P103 - Read label before use.
- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- 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 dust/fume/gas/mist/vapours/spray.
- P264 - Wash hands thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/eye protection/face protection.
- P308+P313 - IF exposed or concerned: Get medical advice/ attention.
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
- P331 - Do NOT induce vomiting.
- P330 - Rinse mouth.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P363 - Wash contaminated clothing before reuse.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.
- 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 (%)
Toluene	108-88-3	15-40%
Solvent naphtha (petroleum), light aliphatic	64742-89-8	10-30%
Acetone	67-64-1	5-10%
Polychloroprene	9010-98-4	7-13%
Heat reactive phenolic resin	trade secret	1-5%
Styrene Butadiene polymer	trade secret	0.5-1.5%
Chlorinated polypropylene	trade secret	0.5-1.5%
Xylene	1330-20-7	0.5-1.5%
Polyphenol antioxidant	trade secret	0.1-1.0%
Magnesium oxide	1309-48-4	0.1-1.0%
Zinc oxide	1314-13-2	0.1-1.0%
Ethylbenzene	100-41-4	0.1-1.0%

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). IF exposed or concerned: Get medical advice/ attention.

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

##### Exposure

**Swallowed** IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTRE or doctor/physician if you feel unwell.

**Eye contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical advice.

**Skin contact** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**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

**Containment** 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.

**Emergency procedures** 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).

**Clean-up method** 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.

**Disposal** 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.

**Precautions** 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 10mg/m<sup>3</sup> for dusts and mists when limits have not otherwise been established.

NZ Workplace Exposure Stds	Ingredient	WES-TWA	WES-STEL
	Toluene	50ppm, 188 mg/m <sup>3</sup> (skin)	data unavailable
	Solvent naphtha (petroleum), light aliphatic	data unavailable	data unavailable
	Acetone	500ppm, 1185mg/m <sup>3</sup>	1000ppm, 2375 mg/m <sup>3</sup>
	Magnesium oxide	10mg/m <sup>3</sup> (fume)	data unavailable
	Zinc Oxide (as respirable dust)	0.1mg/m <sup>3</sup>	0.5mg/m <sup>3</sup>
	Zinc Oxide (as inhalable dust)	2mg/m <sup>3</sup>	5mg/m <sup>3</sup>
	Xylene	50ppm, 217mg/m <sup>3</sup>	data unavailable
	Ethylbenzene	100ppm, 434mg/m <sup>3</sup>	125ppm 543mg/m <sup>3</sup>

### 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>		Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible.
<b>Skin</b>		Protective gloves are recommended. PVC or rubber 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>	yellowish liquid
<b>Odour</b>	hydrocarbon odour
<b>pH</b>	no data
<b>Vapour pressure</b>	54.1mmHg
<b>Vapour density</b>	3.2 (air =1)
<b>Viscosity</b>	2500 cps
<b>Boiling point</b>	56 - 137 °C
<b>Volatile materials</b>	670 g/L VOC
<b>Freezing / melting point</b>	-95 - -47°C
<b>Solubility</b>	negligible in water

<b>Specific gravity / density</b>	0.849 g/cm <sup>3</sup>
<b>Flash point</b>	-20°C
<b>Danger of explosion</b>	no data
<b>Auto-ignition temperature</b>	230°C
<b>Upper &amp; lower flammable limits</b>	LEL: 1%, UEL: 12.8%
<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>	Strong oxidisers, acids, bases
<b>Substance Specific Incompatibility</b>	none known
<b>Hazardous decomposition products</b>	Oxides of carbon, oxides of nitrogen.
<b>Hazardous reactions</b>	none known

## 11. Toxicological Information

### Summary

IF SWALLOWED: May be fatal if swallowed and enters airways. May cause gastrointestinal irritation.

IF IN EYES: Causes serious eye irritation.

IF ON SKIN: Causes skin irritation. May cause allergic skin reaction.

IF INHALED: May cause drowsiness or dizziness. May cause respiratory irritation.

CHRONIC TOXICITY: Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure: central nervous system, respiratory system, blood, liver.

### Supporting Data

<b>Acute</b>	<b>Oral</b>	Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (oral, rat) for the mixture is between 300 and 2000 mg/kg. Data considered includes: Toluene 636 mg/kg (rat), Solvent naphtha (petroleum), light aliphatic no, Acetone 3000 mg/kg (mouse).
	<b>Dermal</b>	No evidence of dermal toxicity.
	<b>Inhaled</b>	Using LC <sub>50</sub> 's for ingredients, the calculated LC <sub>50</sub> (inhalation, rat) for the mixture is 20mg/L (vapour). Data considered includes: Toluene 12.5 - 28.8 mg/l (vapour, rat),
	<b>Eye</b>	The mixture is considered to be an eye irritant, because some of the ingredients (toluene, solvent naphtha (petroleum), light aliphatic, acetone) present are considered eye irritants in more concentrated form.
<b>Chronic</b>	<b>Skin</b>	The mixture is considered to be a skin irritant, because some of the ingredients (toluene, solvent naphtha (petroleum), light aliphatic, acetone) present are considered skin irritants in more concentrated form.
	<b>Sensitisation</b>	The mixture is considered to be a contact sensitizer.
	<b>Mutagenicity</b>	No ingredient present at concentrations > 0.1% is considered a mutagen.
	<b>Carcinogenicity</b>	The mixture is considered to be a suspected carcinogen. Ethylbenzene is classed by IARC as Group 2B (possibly carcinogenic to humans).
	<b>Reproductive / Developmental Systemic</b>	The mixture is considered to be a suspected reproductive or developmental toxicant. Xylene and toluene are classed 6.8B by EPA.
	<b>Aggravation of existing conditions</b>	The mixture is considered to be a suspected target organ toxicant. Xylene and toluene may affect the CNS. None known.

## 12. Ecological Data

### Summary

This mixture is toxic towards aquatic organisms with long lasting effects and harmful towards terrestrial vertebrates.

### 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 and at least one of the components is either bioaccumulative or persistent in the aquatic environment. Data considered includes: Toluene 5.8 mg/l (96hr, <i>Oncorhynchus mykiss</i> ), 11.5 mg/l (48hr, <i>Daphnia magna</i> ), 12.5mg/L (72hr, Algal).
<b>Bioaccumulation</b>	No data
<b>Degradability</b>	No data
<b>Soil</b>	No evidence of soil toxicity.

<b>Terrestrial vertebrate</b>	Considered as ecotoxic to terrestrial vertebrates. Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (oral, rat) for the mixture is between 500 and 2000 mg/kg. See acute toxicity.
<b>Terrestrial invertebrate</b>	No evidence of toxicity 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>	ADHESIVE
<b>Class(es)</b>	3	<b>Packing group:</b>	II
<b>Precautions:</b>	Flammable liquid	<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: HSR002669, Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard 2017. All ingredients appear on the NZIoC.

**Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)**

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	Not required.
Tracking	Not required.
Bundling & 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 HSR002669, Surface Coatings and Colourants (Flammable, Toxic [6.7]) 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
<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</b>	Lower 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>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>UEL</b>	Upper Explosive Limit
<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
April 2021	Update of WES

**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. 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.

