



# Hi-Tuff TPO Cut Edge Sealant (Clear)

## Safety Data Sheet

May 2019

### SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

#### Product:

<b>Product Name:</b>	Hi-Tuff TPO Cut Edge Sealant
<b>Other Names:</b>	EcoTUFF TPO Clear Edge Sealer
<b>Product Code:</b>	ETES
<b>HSNO Approval:</b>	HSR002662
<b>Approval Description:</b>	Surface Coatings & Colorants (Flammable) Group Standard 2017
<b>UN Number:</b>	UN1263
<b>Proper Shipping Name:</b>	PAINT RELATED MATERIAL
<b>DG Class:</b>	3
<b>Packing Group:</b>	II
<b>Hazchem Code:</b>	3YE
<b>Uses:</b>	Solvent Based Sealant

#### Company Details:

<b>Company:</b>	Sealco Limited
<b>Address:</b>	31 Newtown St, Bromley, Christchurch PO Box 35-190, Shirley, Christchurch
<b>Telephone:</b>	03 366 9495, 0508 292 837
<b>Website:</b>	<a href="http://www.sealco.co.nz">www.sealco.co.nz</a>

<b>Emergency Number:</b>	<b>National Poisons Centre</b> <b>0800 764 766</b>
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### SECTION 2 – HAZARDS IDENTIFICATION

#### Approval:

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002662, Surface Coatings & 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:

**3.1B**  
**6.1D (Inhalation)**  
**6.1D (Oral)**  
**6.1E (Dermal)**  
**6.3A**  
**6.4A**  
**6.8B**

#### Hazard Statements:

**H225** - Highly flammable liquid & vapour  
**H332** – Harmful if inhaled  
**H302** – Harmful if swallowed  
**H313** – May be harmful in contact with skin  
**H315** - Causes skin irritation  
**H320** – Causes eye irritation  
**H361** – Suspected of damaging fertility or the unborn child



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6.9B

6.9B (Narcotic)

9.1D

9.3C

**H371** – May cause damage to organs through prolonged or repeated exposure

**H336** - May cause drowsiness or dizziness

**H402** – Harmful to aquatic life

**H433** – Harmful to terrestrial vertebrates

### DANGER Symbols



### 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 heat, hot surfaces, sparks, open flames and other 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

**P271** - Use only outdoors or in a well-ventilated area

**P273** – Avoid release to the environment

**P280** – Wear protective gloves / eye protection / face protection

**P301+P312** – If SWALLOWED. Call a POISON CENTRE or doctor if you feel unwell

**P330** – Rinse mouth

**P331** – Do NOT induce vomiting

**P302+P352** – If ON SKIN: Wash with plenty of soap and water

**P332+P313** – If skin irritation occurs, Get medical advice / attention

**P362** – Take off contaminated clothes and wash before re-use

**P305+P351+P338** - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P313+P337** – If eye irritation persists seek medical advice / attention

**P308+313** – IF exposed or concerned, get medical advice / attention

**P304+P340** - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing



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**P391** – Collect spillage

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

**P405** - Store locked up.

**P501** - Dispose of contents/container in accordance with local regulations.

### SECTION 3 – INFORMATION ON INGREDIENTS

CAS / Identification	Component	Conc (%)
108-88-3	Toluene	45-70
1330-20-7	Xylene	15-40

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

### SECTION 4 – FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of tempered water (at least 15-20 minutes) lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash or dispose of clothing before reuse.

**INGESTION:** Do not induce vomiting, keep person warm, quiet and get medical attention immediately. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Aspiration of this material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Liquid and vapor can severely irritate the eyes depending on type of exposure (splash, vapor) and exposure time.

**SKIN:** Mild to moderate skin irritant.

**SKIN ABSORPTION:** May be absorbed through the skin and can contribute to overall exposure. Effects are similar to CNS depression.

**INGESTION:** May result in central nervous system (CNS) depression with symptoms such as headaches, nausea, vomiting, diarrhoea, dizziness, incoordination and unconsciousness. Aspiration of material into lungs may cause chemical pneumonitis which can be fatal.

**INHALATION:** High vapor concentrations may cause CNS depression with symptoms including light headedness, giddiness, nausea, drowsiness, headache, nose, throat and respiratory tract irritation, reduced appetite, confusion, and unconsciousness.

**ACUTE TOXICITY:** High vapor concentrations may cause central nervous system (CNS) depression with symptoms including light headedness, giddiness, nausea, drowsiness, headache, nose, throat and respiratory tract irritation, reduced appetite, confusion and unconsciousness.



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**CHRONIC EFFECTS:** Damage to the nervous system of the extremities, peripheral neuropathy, with symptoms including numbness, tingling and weakness in the toes and fingers, sensory impairment to touch, pain, vibration and temperature, muscular weakness, blurred vision, coldness of extremities, loss of body weight and reflexes, and even paralysis. Frequent or prolonged contact may irritate the skin and cause a skin rash(dermatitis).

### SECTION 5 – FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Class IB

**GENERAL HAZARD:** Flammable liquid and vapor.

**Extinguishing Media**

Dry chemical, foam, carbon dioxide, water spray or fog.

**Explosion Hazards**

Avoid fire, sparks, static electricity and hot surfaces. Liquid readily evaporates at room/ambient temperature. Vapors are invisible, flammable, heavier than air, and may accumulate in low areas and spread long distances. Distant ignition and flashback are possible.

**Hazardous Combustion Products**

Carbon Monoxide, Carbon Dioxide, Aldehydes

**Fire Fighting Measures**

As in any fire, wear self-contained breathing apparatus with pressure-demand, full face piece SCBA (MSHA/NIOSH approved or equivalent) and full protective gear.

**Sensitive to Static Discharge:** Likely to catch fire from near-by spark. Static charge may accumulate by flow or agitation. Grounding and bonding of containers is required.

**Hazardous Decomposition Products:** Carbon Monoxide and Carbon Dioxide may form when heated to decomposition.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on absorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed, thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal. Only those persons who are adequately trained, authorized, and wearing the required personal protective equipment (PPE) should participate in spill response and clean-up.

**LARGE SPILL:** Keep spectators away. Only those persons who are adequately trained, authorized and wearing the required personal protective equipment (PPE) should participate in spill response and clean-up. Ventilate the area by natural means or by explosion proof mechanical means (i.e. fans). Know and prepare for spill response before using or handling this product. Eliminate all ignition sources (flames, hot surfaces, portable heaters and sources of electrical, static, or frictional sparks). Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered and labelled metal containers for recovery or disposal, or remove with



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inert absorbent. Use only non-sparking tools and appropriate PPE. Place absorbent diking materials in covered metal containers for disposal. Prevent contamination of sewers, streams, and groundwater with spilled material or used absorbent

### SECTION 7 – HANDLING & STORAGE

**GENERAL PROCEDURES:** For professional or industrial use only. Follow label instructions. Keep out of the reach of children. Not for consumption. No smoking. Do not breathe vapors. Avoid contact with body. Turn off all pilot lights, flames, stoves, heaters, electric motors, welding equipment and other sources of ignition. Empty containers must not be washed and re-used for any purpose. Contact lens wearers must wear protective eye wear around chemical vapors and liquid. Wash hands thoroughly after handling. Flammable vapors may cause flash fire or ignite explosively. To prevent build-up of vapors, use adequate natural and/or mechanical ventilation (e.g. open all windows and doors to achieve cross ventilation). Containers may be hazardous when empty. Never use welding or cutting torch on or near container. Do not cut, drill, grind, or expose containers to heat, sparks, static electricity or other source of ignition. Explosion may occur causing injury or death.

**HANDLING:** Use adequate ventilation and appropriate respiratory protection to avoid breathing vapors when cover is removed. Ground and bond all equipment when handling flammable solvent-borne material.

#### Storage

Keep container closed when not in use. Store in a dry, well ventilated area, out of the sun and away from ignition sources. Do not remove or deface label. Prevent water or moist air from entering container.

**STORAGE TEMPERATURE:** 15.5°C (60°F) Minimum to 35°C (95°F) Maximum

#### Incompatible Materials

Strong oxidizing agents, acids, bases

### SECTION 8 – EXPOSURE CONTROL & PERSONAL PROTECTION

#### Workplace Exposure Standards:

A workplace exposure standard 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 Standards

Ingredient	WES-TWA	WES-STEL
Toluene	50ppm, 188mg/m <sup>3</sup> (skin)	Not available
Xylene	50ppm, 217mg/m <sup>3</sup>	Not available

\*These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health & 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 as below the WES as practicable. Exposure can be reduced by process modification, use of local



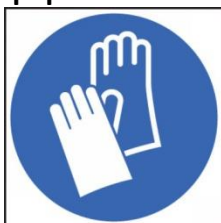
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exhaust ventilation, capturing substances at their source, or other methods. If you believe air borne concentrations of mist, dust or vapours are high, you are advised to modify processes or increase ventilation.

### Personal Protective Equipment:



**Eyes:** Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin Protection:** Wear chemical protective clothing & boots to prevent repeated or prolonged skin contact. Wear impervious gloves, if needed, to prevent repeated or prolonged skin contact.

**Respiratory Protection:** An approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

## SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Viscous liquid	<b>Physical State</b>	Liquid
<b>Odour</b>	Solvent like	<b>Colour</b>	Clear
<b>Boiling Point Range</b>	110 °C to 137 °C	<b>Flammability Limit</b>	1.0 to 7.1
<b>Auto-ignition</b>	526 °C (980 °F)	<b>Flash Point</b>	8.9 °C (48 °F)
<b>Vapor Density (air=1)</b>	4	<b>Specific Gravity (water=1)</b>	0.872
<b>% Volatile (By weight)</b>	84.1		
<b>Density</b>	7.27 lbs/gal	<b>VOC</b>	732.8 g/l EPA method 24

## SECTION 10 – STABILITY & REACTIVITY

<b>Reactivity</b>	No reactivity hazard is expected
<b>Chemical Stability</b>	Stable under normal conditions of use.
<b>Possibility of Hazardous Reactions</b>	Hazardous polymerization will not occur
<b>Conditions to Avoid</b>	Avoid fire, sparks, static electricity and hot surfaces
<b>Incompatible Materials</b>	Strong oxidizing agents, strong acids and strong bases
<b>Hazardous decomposition products</b>	Carbon monoxide & carbon dioxide may form when heated to decomposition



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### SECTION 11 – TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

**Inhalation** - May cause respiratory irritation.

**Skin Contact** - Causes skin irritation.

**Irritation** - Eyes, nose, throat, respiratory tract irritation.

**Corrosivity** - Not applicable

**Sensitization** - Not applicable

**Neurotoxicity** - Not applicable

**Genetic Effects** - Not applicable

**Mutagenicity** - Not applicable

**Reproductive Effects** - This product contains toluene, a chemical known to the state of California to cause birth defects or other reproductive harm.

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Toluene (108-88-3)

Oral LD50 Rat 2600 mg/kg - 7500 mg/kg

Dermal LD50 Rabbit 12,124 mg/kg

Inhalation LD50 Rat 8000 ppm (4hr dose)

Xylene (1330-20-7)

Oral LD50 Rat 4300 mg/kg

Dermal LD50 Rabbit 2000 mg/kg

Inhalation LD50 Rat 26800 ppm

#### Component Carcinogenicity

<b>Toluene</b>	108-88-3	IARC	3
<b>Xylene (o-, m-, p-Isomers)</b>	1330-20-7	IARC	3

### SECTION 12 – ECOLOGICAL INFORMATION

#### Environmental Data

This product contains components that will normally float on water. These components may be harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment.

#### Ecotoxicological Information:

Contains components that are potentially toxic to freshwater and saltwater ecosystems.

#### Bioaccumulation/Accumulation

Contains components with the potential to bio-accumulate.





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### SECTION 13 – DISPOSAL CONSIDERATIONS

#### Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

### SECTION 14 – TRANSPORT INFORMATION

#### Land Transport Rule: Hazardous Goods 2005 – NZS 5433:2007

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

<b>Shipping Name:</b>	PAINT RELATED MATERIAL	<b>Packing Group:</b>	II
<b>UN #</b>	UN1263	<b>HAZCHEM Code</b>	3YE
<b>Hazard Class:</b>	3	<b>Precautions:</b>	Flammable Liquid

### SECTION 15 – REGULATORY INFORMATION

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).

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

##### Key Workplace requirement are:

<b>SDS</b>	To be available in 10 minutes any workplace storing any quantity
<b>Inventory</b>	An inventory of all hazardous substances must be prepared and maintained
<b>Packaging</b>	All hazardous substances should be appropriately packaged, including substances that have been decanted, transferred or manufactured for own use or have been supplied
<b>Labelling</b>	Must comply with the Hazardous Substances (Labelling) Notice 2017
<b>Emergency Plan</b>	Required if > 1000L is stored
<b>Certified Handler</b>	Not required
<b>Tracking</b>	Required to be tracked if > not required is present
<b>Bunding &amp; Secondary Containment</b>	Required if > 1000L is stored
<b>Signage</b>	Required if > 250 L is stored in one location
<b>Location Compliance Certificate</b>	Required if > 100L (containers > 5L), 250 L (≤5L containers) 50L (in use) is stored in any one location
<b>Flamable Zone</b>	Must be established if > 100L (closed containers), 25L (decanting), 5L (open occasionally), 1L (in use) is stored in any one location
<b>Fire Extinguisher</b>	If > 250L is present





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### Section 16 – OTHER INFORMATION

#### Other Information

##### HMIS Rating

Health: 2 Fire: 3 Reactivity: 0 Personal Protection B

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

##### NFPA Ratings

Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### Abbreviations:

##### CAS Number

Unique Chemical Abstracts Service Registry Number

##### Controls Matrix

List of default controls linking regulation numbers to Matrix code

##### EC50

Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test population (eg. Daphnia, fish species)

##### EPA

Environmental Protection Authority

##### HAZCHEM Code

Emergency action code of numbers and letters that provide information to emergency services, especially firefighters

##### HSNO

Hazardous Substances and New Organisms (Act & Regulations)

##### IARC

International Agency for Research on Cancer

##### LEL

Lower Explosive Limit

##### LD50

Lethal Dose 50% - dose which is fatal to 50% of a test population (usually rats)

##### LC50

Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population (usually rats)

##### MSDS (SDS)

Material Safety Data Sheet (Safety Data Sheet)

##### NZIoC

New Zealand Inventory of Chemicals

##### PES

Prescribes 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

##### STEL

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.

##### TWA

Time Weighted Average – generally referred to WES averaged over typical workday (usually 8 hours)

##### UEL

Upper Explosive Limit

##### WES

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 per day, 5 days per week) The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the workers breathing zone



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### Disclaimer:

This SDS was prepared by Sealco Ltd and is based on our current knowledge, including information obtained by suppliers. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. 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 and how the substance is used. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.