



# FlameSEAL SBS Modified Bitumen Cap Sheet

## - GREY

### Safety Data Sheet

June 2021

## SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

### Product:

<b>Product Name:</b>	FlameSEAL SBS Modified Bitumen Cap Sheet - GREY
<b>Other Names:</b>	Vanguard SBS Modified Bitumen Roofing Membrane
<b>Product Code:</b>	FSCSG
<b>HSNO Approval:</b>	Not applicable
<b>Approval Description:</b>	Not applicable
<b>UN Number:</b>	Not applicable
<b>Proper Shipping Name:</b>	Not applicable
<b>DG Class:</b>	Not applicable
<b>Packing Group:</b>	Not applicable
<b>Hazchem Code:</b>	Not applicable

**Product Description and Use:** Asphalt rolled roofing

### Company Details:

<b>Company:</b>	Sealco Limited
<b>Address:</b>	Unit 5, 18 Taurus Place, 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>

**Emergency Number:** **National Poisons Centre**  
**0800 764 766**

## SECTION 2 – HAZARDS IDENTIFICATION

This product is not classified as hazardous according to the criteria of the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

### GHS Label Elements

**Symbol(s)** - None required

**Signal Word** - None required

### Hazard Statements:

**H335** - May cause respiratory irritation

**H336** - May cause drowsiness or dizziness

**H351** - Suspected of causing cancer

### Precautionary Statements:

**P201** - Obtain special instructions before use

**P202** - Do not handle until all safety precautions have been read and understood

**P281** - Use personal protective equipment as required.

**P260** - Do not breathe dust/fume/gas/mist/vapours/spray.

**P264** - Wash thoroughly after handling.  
**P270** - Do not eat, drink, or smoke when using this product.  
**P314** - Get medical advice/attention if you feel unwell.  
**P308+P313** - If exposed or concerned: Get medical attention.

**Disposal:**

**P501** - Dispose of content/container in accordance with local/regional/national/international regulation

### SECTION 3 – INFORMATION ON INGREDIENTS

CAS / Identification	Component	Percent (w/w)
64742-93-4	Oxidized Bitumen	0 – 30
8052-42-4	Bitumen	15 – 75
n/a	Coloured Granules	0 – 35
1317-65-3	Limestone	0 – 55
(proprietary mix)	Polymers	2 – 15
14808-60-7	Crystalline Silica (Quartz)	0 - 10
n/a	Polyester Mat	0 – 10
65997-17-3	Fibreglass Mat	0 – 10
n/a	Silicone Paper	0 – 20
14807-96-6	Talc / sand	0 – 30
7782-42-5	Graphite	0 – 2
9002-88-4	Polyethylene	0 – 15
13463-67-7	Titanium Dioxide	0 – 2.5

Note: During heat welding or hot mopping of product (if applicable), small amounts of toxic hydrogen sulfide H<sub>2</sub>S (CAS 7783- 06-4) may be generated.

### SECTION 4 – FIRST AID MEASURES

**Inhalation** - If exposed to combustion or asphalt fumes, remove victim to fresh air. Seek medical aid for significant exposure to combustion or asphalt fumes.

**Eyes** - Flush affected eye in a stream of water for at least 15 minutes. Consult doctor if eye(s) are inflamed.

**Ingestion** - Not expected to be ingested. If ingested: rinse mouth, drink plenty of water and immediately call for medical help.

**Skin Contact** - Routine first aid treatment for cuts and abrasions from handling. Wash hands with soap and water after handling. For contact with heated product, cool body part by water immersion or shower. Do not try to remove product from affected area. Seek immediate medical attention.

**Acute and Chronic Symptoms:**

Refer to “Section 11 - Toxicological Information” for additional information.

**Medical Attention:**

No additional information available

## SECTION 5 – FIRE FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media** - Water spray, dry chemical, or carbon dioxide.

**Unsuitable Extinguishing Media** – None reported.

**Firefighting** - No specific information available

**Flammability** - Not flammable

### Properties:

**Flash Point** - Not applicable

**Flammable Limits in Air** - Not applicable

**Auto Ignition Temperature** - Not applicable

**Special PPE for Firefighters** - Use NIOSH approved self-contained breathing equipment when exposed to product flames or fire, as product will emit very toxic fumes on thermal degradation.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. If in heated state, allow material to cool down before removal.

### Methods and Materials for Containment and Cleaning Up

Normal housekeeping measures. Pick up large pieces and dispose of in accordance with Local, State, Federal and Provincial regulations.

### Environmental Precautions

No information available.

## SECTION 7 – HANDLING & STORAGE

### Precautions for Safe Handling

When handling the material, wear the appropriate personal protective equipment described in section 8.

### Conditions for Safe Storage, including any Incompatibilities:

Store in a dry location protected from the elements, high temperature and flames/sparks.

### Other Precautions:

Comply with local other safety standards and codes for roof work. Always use Fall Protection Systems when working on roofs. Do not walk on material that has not been securely fastened to the roof deck.

## SECTION 8 – EXPOSURE CONTROL & PERSONAL PROTECTION

### NZ Workplace Exposure Standards

Ingredient	CAS	WES-TWA	WES-STEL
Oxidized Asphalt (Bitumen) Fumes	64742-93-4	Not available	Not available
Crystalline Silica (Quartz)	14808-60-7	0.05 mg/m <sup>3</sup>	Not available
Talc	14807-96-6	2.0 mg/m <sup>3</sup>	Not available

Titanium Dioxide	13463-67-7	10 mg/m <sup>3</sup>	Not available
Hydrogen Sulfide	7783-06-4	5 ppm / 7mg/m <sup>3</sup>	10 ppm / 14mg/m <sup>3</sup>

\*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** - Use local exhaust ventilation if general ventilation is not adequate to control amount in the air.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection** - Use safety glasses or goggles when necessary.

**Skin Protection** - Minimize skin contact. Protective gloves may be used when handling material.

**Respiratory Protection** – Not required under normal conditions of use. Wear NIOSH approved respiratory protection if dust or asphalt fume levels are above standard exposure limits.

**Hygiene Measures** - Wash hands with soap after handling.

**Other Controls** - If contact is unavoidable, wear all necessary protective gear.

**Personal Protective Equipment:**



## SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance – Physical State and Colour</b>		Solid, various colors, sheet material.	
<b>Odour</b>	Slight asphalt odor.	<b>Flash Point</b>	Not applicable.
<b>Odor Threshold</b>	No information available	<b>pH</b>	No information available
<b>Melting / Freezing Point</b>	No information available	<b>Evaporation Rate</b>	Not applicable
<b>Boiling Point Range</b>	Not applicable	<b>Flammability</b>	Not flammable
<b>Upper / Lower Explosive Limits</b>		Not applicable	
<b>Vapor Density</b>	No information available	<b>Vapour Pressure</b>	Not applicable
<b>Molecular Weight</b>	No information available	<b>Auto Ignition</b>	No information available
<b>Solubility(ies)</b>	Insoluble	<b>Specific Gravity</b>	>1.0
<b>Partition Co-efficient: N - octonal / water</b>		No information available	

## SECTION 10 – STABILITY & REACTIVITY

<b>Reactivity – Chemical Stability</b>	Stable at ambient temperatures.
<b>Possibility of Hazardous Reactions</b>	No information available
<b>Conditions to Avoid</b>	Avoid excessive heat.
<b>Incompatible Materials</b>	Strong oxidizers, strong acids, alkalis
<b>Hazardous decomposition products</b>	CO <sub>x</sub> , SO <sub>x</sub> , NO <sub>x</sub> , smoke, hydrogen sulfide.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Acute and Chronic Toxicity

**Warning:** This product may contain crystalline silica (quartz). IARC MONOGRAPH VOLUME 68, 1997 concludes that there is sufficient evidence that inhaled crystalline silica causes cancer in humans. IARC classification: Group 1

**Warning:** This product may contain Titanium Dioxide. IARC concludes that Titanium Dioxide is possibly carcinogenic to humans. IARC classification: Group 2B

**Warning:** This product may contain oxidized bitumens. The International Agency for Research on Cancer (the "IARC") published a monograph in 2013 which concluded that "occupational exposure to oxidized bitumens and their emissions during roofing operations are probably carcinogenic to humans". This warning may be updated at such time as a final determination is made and IARC has published its monograph on the matter. IARC classification: Group 2A

The IARC found that there is "limited evidence" in humans for the carcinogenicity of occupational exposures to bitumens and bitumen emissions during roofing and mastic-asphalt work. The IARC also found that there is "sufficient evidence" in experimental animals for carcinogenicity of fume condensates generated from oxidized bitumen. All other evidence of cancer in humans and experimental animals was judged "inadequate" or "limited." The physical nature of this product may help limit any inhalation hazard from oxidized asphalt during application in its hardened state. However, physical forces such as grinding, drilling and other demolition work on this product may liberate dust containing oxidized asphalt. Burning or heating of the product may cause fumes, vapors or mists.

**Medical conditions aggravated by exposure:** No information available.

**Primary route of exposure:** Inhalation

### Health Effects:

**Eyes** - If the product is heated, asphalt fumes are moderately irritating to the eye.

**Skin** - If the product is heated, the hot material may cause thermal burns.

**Inhalation** - Prolong inhalation of fumes from hot asphalt may cause nausea, headache and dizziness.

**Ingestion** - Ingestion is unlikely. If ingested, may cause irritation of the digestive tract.

**Specific Target Organ Toxicity – (Single Exposure)** - No information available.

**Specific Target Organ Toxicity – (Repeated Exposure)** - No information available.

### Carcinogenicity:

Crystalline silica (quartz) is listed as IARC Group 1 (is carcinogenic to humans).

Oxidized asphalt is listed as IARC Group 2A (probably carcinogenic to humans).

Titanium Dioxide is listed as IARC Group 2B (possibly carcinogenic to humans).

### Reproductive Toxicity

**Development of offspring** - No information available.

**Sexual function and fertility** - No information available.

**Germ cell mutagenicity** - No information available.

## SECTION 12 – ECOLOGICAL INFORMATION

**Ecotoxicity** - No information available.

**Persistence and Degradability** - No information available.

**Bio-accumulative Potential** - No information available.

**Mobility** - No information available.

## 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: Dangerous Goods 2005 – NZS5433:2007 – There are no specific restrictions for this product (Not a Dangerous Good).

<b>Shipping Name:</b>	Not Applicable	<b>Packing Group:</b>	Not Applicable
<b>UN #</b>	Not Applicable	<b>HAZCHEM Code</b>	Not Applicable
<b>Hazard Class:</b>	Not Applicable	<b>Precautions:</b>	Not Applicable

## SECTION 15 – REGULATORY INFORMATION

This product is not classified as Hazardous according to the criteria of the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

## Section 16 – OTHER INFORMATION

### Review

Date	Reason for Review	Version
July 2021	Not applicable – New SDS	1

### 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.