



# Bitumen Underlays

## Product Safety Information Sheet

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Article  
Product name : Bitumen Underlays  
Other means of identification : Profiles Vent XL U/L  
Total Torch Vapour Dispersion Layer  
SBS Torch-On Film  
SBS Torch-On Sand  
Premium SBS Torch-On Underlay  
Torchsaf T.A. Underlay  
Torchsaf T.A. Underlay Sand  
Power Elastomeric 250 Sand

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : Roof Waterproofing

##### 1.2.2. Uses advised against

Restrictions on use : Anything other than the above

#### 1.3. Details of the supplier of product safety information sheet

BMI Group UK Ltd  
2 Pitfield, Kiln Farm  
Milton Keynes  
MK11 3LW  
United Kingdom  
Telephone: 0330 123 4585 (BMI Icopal Technical Services)  
E-mail: [bmi.sds@bmigroup.com](mailto:bmi.sds@bmigroup.com)  
Website: <https://www.bmigroup.com/uk/>

#### 1.4. Emergency telephone number

No additional information available

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to GB CLP (SI 2019:720 as amended)

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to GB CLP (SI 2019:720 as amended)

No labelling applicable

#### 2.3. Other hazards

Other hazards which do not result in classification : Drilling, cutting, grinding or reshaping of the product may generate hazardous dust.

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This product does not contain substances at  $\geq 0.1\%$  that meet the PBT criteria of UK REACH regulation, annex XIII  
This product does not contain substances at  $\geq 0.1\%$  that meet the vPvB criteria of UK REACH regulation, annex XIII

Component	
Substance(s) not meeting the PBT criteria of UK REACH regulation, in accordance with Annex XIII	Bitumen, asphalt (8052-42-4), Calcium carbonate (1317-65-3), Quartz (14808-60-7)
Substance(s) not meeting the vPvB criteria of UK REACH regulation, in accordance with Annex XIII	Bitumen, asphalt (8052-42-4), Calcium carbonate (1317-65-3), Quartz (14808-60-7)

The substance is not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP	Bitumen, asphalt(8052-42-4), Calcium carbonate(1317-65-3), Quartz(14808-60-7)

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to GB CLP (SI 2019:720 as amended)
Bitumen, asphalt	CAS-No.: 8052-42-4 EC-No.: 232-490-9	20 – 60	Not classified
Calcium carbonate	CAS-No.: 1317-65-3 EC-No.: 215-279-6	20 – 50	Not classified
Quartz	CAS-No.: 14808-60-7	0 – 20	Not classified

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If symptoms develop, obtain medical attention.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop, obtain medical attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms develop, obtain medical attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Do not give an unconscious person anything to drink. Rinse mouth. Obtain medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : Dust may cause mechanical irritation of the eyes, skin and upper respiratory tract.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not flammable.
- Hazardous decomposition products in case of fire : Thermal decomposition can lead to release of irritating and toxic gases and vapours. Carbon oxides (CO, CO<sub>2</sub>).

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment.
- Protection during firefighting : As in any fire, wear self-contained breathing apparatus and full protective gear.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Remove all sources of ignition. Ventilate area. Evacuate unnecessary personnel. Avoid breathing dust. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing and eye or face protection.
- Emergency procedures : Remove all sources of ignition. Ventilate area. Avoid breathing dust. Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.
- Other information : Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing dust. Avoid contact with skin and eyes. Use personal protective equipment as required.
- Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off immediately all contaminated clothing and wash it before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a dry, cool and well-ventilated place. Protect material from direct sunlight.
- Incompatible materials : None known.

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### 7.3. Specific end use(s)

Roof Waterproofing.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

Bitumen, asphalt (8052-42-4)	
United Kingdom - Occupational Exposure Limits	
Local name	Asphalt
WEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> petroleum fumes
WEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> petroleum fumes
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

  

Calcium carbonate (1317-65-3)	
United Kingdom - Occupational Exposure Limits	
Local name	Calcium carbonate (Limestone, Marble)
WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> total inhalable 4 mg/m <sup>3</sup> respirable
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

If used indoor. Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment:

Avoid all unnecessary exposure.

##### 8.2.2.1. Eye and face protection

###### Eye protection:

Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection.

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Long-sleeved protective clothing

###### Hand protection:

Wear protective gloves. Standard EN 374 - Protective gloves against chemicals. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough. If there is a risk of cuts or abrasions: Wear suitable gloves to protect hands from cuts and abrasions when needed (e.g. coated Rigger)

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

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Wear suitable respiratory equipment

### 8.2.2.4. Thermal hazards

#### Thermal hazard protection:

Wear heat-resistant gloves and clothing if the product is heated.

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Various colours.
Odour	: Characteristic.
Odour threshold	: Not available
pH	: Not available
pH solution	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not applicable
Explosive limits	: Not applicable
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Relative vapour density at 20°C	: Not applicable
Relative density	: Not available
Density	: Not available
Solubility	: Not available
Log Kow	: Not available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidising properties	: Not oxidising.

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

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### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire: See Section 5.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	:	Not classified (Based on available data, the classification criteria are not met)

#### Bitumen, asphalt (8052-42-4)

LD50 oral, rat	> 5000 mg/kg bodyweight (Read-across, CAS 64741-56-6) (OECD 401 method)
LD50 dermal, rabbit	> 2000 mg/kg bodyweight (Read-across, CAS 64741-56-6)
LC50 inhalation, rat (Dust/Mist - mg/l/4h)	94.4 mg/m <sup>3</sup> air - 4.5 Hours (Read-across, CAS 64742-93-4)

#### Calcium carbonate (1317-65-3)

LD50 oral, rat	> 2000 mg/kg (OECD 420 method)
LD50 dermal, rat	> 2000 mg/kg (OECD 402 method)
LC50 inhalation, rat (mg/l)	> 3 mg/l - 4 Hours (OECD 403 method)

Skin corrosion/irritation	:	Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	:	Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	:	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	:	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	:	Not classified (Based on available data, the classification criteria are not met)

#### Bitumen, asphalt (8052-42-4)

IARC group	2B - Possibly carcinogenic to humans, (Bitumens, occupational exposure to straight-run bitumens and their emissions during road paving)
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Reproductive toxicity	:	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	:	Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	:	Not classified (Based on available data, the classification criteria are not met)

#### Bitumen, asphalt (8052-42-4)

NOAEL, Dermal, rabbit, Read-across, CAS 64742-93-4	≥ 2000 mg/kg bw/day (28 days, (OECD 410 method), systemic effect)
LOAEL, Dermal, rabbit, Read-across, CAS 64742-93-4	200 mg/kg bw/day (28 days, (OECD 410 method), Local effects)
NOAEC, Chronic, Inhalation, rat, Read-across, CAS 64742-93-4	> 103.9 mg/l ((OECD 453 method), systemic effect)

Aspiration hazard	:	Not classified (Based on available data, the classification criteria are not met)
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### Other information

No additional information available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	:	Not classified.
Hazardous to the aquatic environment, short-term (acute)	:	Based on available data, the classification criteria are not met
Hazardous to the aquatic environment, long-term (chronic)	:	Based on available data, the classification criteria are not met

#### Bitumen, asphalt (8052-42-4)

LC50 fish	> 1000 mg/l - 96 Hours (Oncorhynchus mykiss, WAF, QSAR), (Read-across: Oxidized Asphalt)
LC50 other aquatic organisms	> 1000 mg/l - 40 Hours (Tetrahymena pyriformis, WAF, QSAR), (Read-across: Oxidized Asphalt)
EC50 Daphnia	> 1000 mg/l - 48 Hours (Daphnia magna, WAF, QSAR), (Read-across: Oxidized Asphalt)
ErC50 algae	> 1000 mg/l - 72 Hours (Pseudokirchneriella subcapitata, WAF, QSAR), (Read-across: Oxidized Asphalt)
NOEC chronic fish	≥ 1000 mg/l - 28 days (Oncorhynchus mykiss, WAF, QSAR), (Read-across: Oxidized Asphalt)
NOEC chronic crustacea	≥ 1000 mg/l - 21 days (Daphnia magna, WAF, QSAR), (Read-across: Oxidized Asphalt)
NOEC, microorganisms	≥ 1000 mg/l (40 Hours, Tetrahymena pyriformis, WAF, QSAR (Read-across: Oxidized Asphalt))

#### Calcium carbonate (1317-65-3)

LC50 fish	> 100 - 96 Hours (OECD 203 method) (Oncorhynchus mykiss)
EC50 Daphnia	> 100 - 48 Hours (OECD 202 method) (Daphnia Magna)
EC50 72h - Algae [1]	> 14 mg/l - 72 Hours (OECD 201 method) (Desmodesmus subspicatus)

#### 12.2. Persistence and degradability

##### Bitumen Underlays

Persistence and degradability	Not established.
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##### Bitumen, asphalt (8052-42-4)

Persistence and degradability	Substance is complex UVCB.
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##### Calcium carbonate (1317-65-3)

Persistence and degradability	Not relevant for inorganic substances.
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##### Quartz (14808-60-7)

Persistence and degradability	Not relevant for inorganic substances.
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#### 12.3. Bioaccumulative potential

##### Bitumen Underlays

Bioaccumulative potential	Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
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##### Bitumen, asphalt (8052-42-4)

Bioaccumulative potential	Not expected to bioaccumulate. Substance is complex UVCB.
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#### 12.4. Mobility in soil

##### Bitumen, asphalt (8052-42-4)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	≥ 4.47 – ≤ 14.7 Substance is complex UVCB
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#### 12.5. Results of PBT and vPvB assessment

##### Bitumen Underlays

This product does not contain substances at ≥0.1% that meet the PBT criteria of UK REACH regulation, annex XIII
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This product does not contain substances at ≥0.1% that meet the vPvB criteria of UK REACH regulation, annex XIII
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Component	
Bitumen, asphalt (8052-42-4)	This product does not contain substances at $\geq 0.1\%$ that meet the PBT criteria of UK REACH regulation, annex XIII This product does not contain substances at $\geq 0.1\%$ that meet the vPvB criteria of UK REACH regulation, annex XIII
Calcium carbonate (1317-65-3)	This product does not contain substances at $\geq 0.1\%$ that meet the PBT criteria of UK REACH regulation, annex XIII This product does not contain substances at $\geq 0.1\%$ that meet the vPvB criteria of UK REACH regulation, annex XIII
Quartz (14808-60-7)	This product does not contain substances at $\geq 0.1\%$ that meet the PBT criteria of UK REACH regulation, annex XIII This product does not contain substances at $\geq 0.1\%$ that meet the vPvB criteria of UK REACH regulation, annex XIII

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.
- Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated for transport				
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>Transport document description</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Not classified				

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

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### Rail transport

Not regulated

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

##### UK REACH Annex XVII (Restriction List)

This product contains no substance(s) listed on UK REACH Annex XVII (Restriction List) equal to or above the level of SDS disclosure

##### UK REACH Annex XIV (Authorisation List)

This product contains no substance(s) listed on UK REACH Annex XIV (Authorisation List) equal to or above the 0.1% level of disclosure

##### UK REACH Candidate List (SVHC)

Contains no substance(s) listed on the UK REACH Candidate List

##### GB PIC regulation (Prior Informed Consent)

This product contains no substance(s) listed on the GB PIC List equal to or above the level of SDS disclosure

##### POP Regulation (Persistent Organic Pollutants)

This product contains no substance(s) listed on the GB POP List equal to or above the level of SDS disclosure

##### Ozone Regulation (S.I. No. 168 of 2015)

This product contains no substance(s) listed on the GB Ozone Depletion List equal to or above the level of SDS disclosure

##### Control of Poisons and Explosives Precursors Act

This product contains no substance(s) listed as a reportable poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a reportable explosive precursor on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations

##### Drug Precursors Regulation (273/2004)

This product contains no substance(s) listed on the GB Drug Precursors List equal to or above the level of SDS disclosure

#### 15.1.2. Other information

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

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### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
IARC	International Agency for Research on Cancer

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Abbreviations and acronyms:	
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ECHA (European Chemicals Agency). Where 'Regulation (EC) No. 1272/2008' appears in the safety data sheet, this is a reference to Regulation (EC) No. 1272/2008, as retained and amended in UK law.

Other information : None.

Safety Data Sheet (SDS), UK