

IKO Bituminous Roofing Membranes

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

### 1.1. Product identifier

**Product name:** IKO Bituminous Roof Membrane

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

**Use of substance / mixture:** The product is designed for use as a bituminous waterproofing membrane

### 1.3. Details of the supplier of the safety data sheet

**Company name:** IKO PLC

Appley Lane North

Appley Bridge

Wigan

Lancashire

WN6 9AB

**Tel:** 01257 256779

### 1.4. Emergency telephone number

Tel: +44 (0)1257 256864 Opening Times: 0900 - 1700 Monday to Friday

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CLP:** This product is not classified under the Classification, Labeling, Packaging Regulations EU reg 453/2010 or Reach EC Regulation 1907/2006 (REACH) & 1272/2008

### 2.2. Label elements

**Label elements under CLP:**

**Hazard statements:** This product is not classified as hazardous, so does not need to comply with the labelling requirements, Hazard Statements or Precautionary Phrases, however please see information in relevant sections with regards to emissions and the handling of hot products.

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**Signal words:** N/A

**Hazard pictograms:** N/A

**Precautionary statements:** N/A

**Precautionary phrases:** N/A

### 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### Mixtures.

The products are not classed as substances or mixtures under the CLP Regulation (EC) No 1272/2008, 453/2010 but are considered to be articles. The products in the range consist of a reinforcing base material coated with bitumen and a surface finish. The base materials include polyester, glass/polyester and glass fibres in sheet form, some used in conjunction with aluminium foil. The bitumen coating may contain mineral filler and/or synthetic polymers. The fire performance cap sheets have an inert graphite coating on the upper surface of the base carrier and the fire performance vapour control layers have a fire retardant modified bitumen coating. The surface finish may be sand, talc, mineral granules or polymeric film.

The product is not hazardous to health in its normal state. The only hazards associated with the product are during the subsequent usage (for example the 'burning' of torch on products.)

Please refer to the 'notes' section regarding the risk associated with hot materials and the constituents associated with bituminous products.

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## Section 4: First aid measures

### 4.1. Description of first aid measures

- Eyes:** For contact with cold material, e.g. small particles, wash thoroughly with water and obtain medical attention if signs of discomfort persist.  
In case of contact with hot material, flood eye with copious quantities of cold water for 10-15 minutes. Do not try to remove material adhering to the eye. Cover the burn area loosely with a sterile dressing, if available. Seek immediate medical attention.
- Skin:** For contact with hot material, cool the affected area under cold running water for at least 10 minutes. Do not attempt to remove anything from the burn area or apply burn creams or ointments. Material adhering to skin will form a sterile barrier which will fall off after a few days. Cover the burn area loosely with a sterile dressing, if available.
- Inhalation:** Seek immediate medical attention.  
In case of inhalation of fumes, remove from exposure. If breathing becomes difficult seek medical assistance.  
If swallowed, rinse mouth with water.

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

**IN ALL CASES IF SYMPTOMS ARE SEVERE, PERSIST OR CAUSE CONCERN, OBTAIN IMMEDIATE MEDICAL ADVICE.** First aid procedures apply when products are subjected to high temperatures, eg during the laying , or in a fire.

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

Immediate / special treatment: None Specified

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## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

Use any media suitable for the surrounding fires. Water, spray, fog, carbon dioxide (CO<sub>2</sub>), dry chemical, foam.

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

**Exposure hazards:** None Specified

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** In confined areas fire-fighters should wear self-contained breathing apparatus. Extinguish fire with foam, dry powder, water fog, sand or earth

## Section 6: Accidental release measures

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

**Personal precautions:** None Specified

### 6.2. Environmental precautions

**Environmental precautions:** None Specified

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

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Be aware when in heated / liquid state, wear appropriate PPE, designed to resist high temperatures, cover skin where possible (ie arms / hands / legs)

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

**Storage conditions:** Store under cover away from sources of heat and ignition.

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**Suitable packaging:** Must only be kept in original packaging.

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

Non specified

If process generated dusts or fumes are likely, follow workplace regulatory exposure limits for relevant hazards (e.g. total dust, respirable dust, silica, talc, asphalt fumes). See Annex 1 for further information.

### 8.2 Exposure controls

**Engineering Controls:** No special protective measures are necessary for use of this product in that it is an article, and under normal conditions of use is not expected to release, or otherwise result in exposure to a hazardous chemical. If cutting, grinding, drilling, etc. ensure that there is adequate ventilation to keep dust levels within required limits.

#### Personal Protective Equipment:

**Eyes/Face:** Where there is a risk of damage to the eyes/face from splashing of hot product or impact, wear eye/face protection to EN166.

**Skin:** The use of heavy duty gloves to protect against skin abrasion and burns through contact with hot bitumen or flame of gas torch during installation is recommended.

**Respiratory:** Not required under normal conditions of use. If dust or fumes are generated, wear appropriate respiratory protection.

**Environmental Exposure Controls:** Not usually required.

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

## Section 9: Physical and chemical properties

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

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

**Appearance:** Grey – black toned solid material. A variety of coloured slate finishes are available on top layer felts.

**Odour:** None

**Odour threshold:** Not Applicable

**pH:** Not Applicable

**Boiling Point:** Not Applicable

**Melting Point:** Not applicable

**Flash Point:** Not Applicable

**Evaporation rate:** Not Applicable

**Flammability(gas, solids):** Standard bitumen based roofing membranes are combustible. Fire performance membranes have a significantly reduced capacity to burn.

**Upper/lower flammability limits:** Not Applicable

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<b>Vapour Pressure:</b>	Not Applicable
<b>Vapour Density:</b>	Not Applicable
<b>Specific Gravity:</b>	Not applicable
<b>Solubility (H2O):</b>	Not soluble
<b>Solubility in other solvents:</b>	Not Applicable
<b>Auto Ignition Temp.:</b>	No data
<b>Decomposition temperature:</b>	No data
<b>Viscosity:</b>	Not Applicable
<b>Explosive properties:</b>	Not classified as explosive
<b>Oxidising properties:</b>	Not classified as oxidising

**9.2. Other information**

**Other information:** No data available.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity:** Stable under recommended transport or storage conditions.

**10.2. Chemical stability**

**Chemical stability:** Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

**10.4. Conditions to avoid**

**Conditions to avoid:** None specified

**10.5. Incompatible materials**

**Materials to avoid:** none specified

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** none specified

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Toxicity values:** none specified

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**Symptoms / routes of exposure**

**Other information:** Not applicable.

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity values:** Not Applicable

**12.2. Persistence and degradability**

**Persistence and degradability:** Biodegradable information not available

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No data available.

**12.4. Mobility in soil**

**Mobility:** Not Applicable

**12.5. Results of PBT and vPvB assessment**

**PBT identification:** This product is not identified as a PBT/vPvB substance.

**12.6. Other adverse effects**

**Other adverse effects:** No data available.

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## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Arrange for disposal by a licenced waste disposal company

**Waste code number:** Check with registered waste disposal company

**Disposal of packaging:** Recycle paper wrapper

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1. UN number

**UN number:** This product is not classified under the Transport Regulations

### 14.2. UN proper shipping name

**Shipping name:** Not Applicable

### 14.3. Transport hazard class(es)

Not Applicable

### 14.4. Packing group

### 14.5. Environmental hazards

**Environmentally hazardous:** No

**Marine pollutant:** No

### 14.6. Special precautions for user

**Special precautions:** No special precautions.

**Tunnel code:** Not Applicable

**Transport category:** Not applicable



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## Section 15: Regulatory information

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

**Specific regulations:** This product is not classified under CLP or REACH

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

### Version History.

Version 1.0	June 1st 2015	New release for Classification, Labelling Packaging Regulations
Version 2.0	November 2015	Added Britorch SBS & Britorch APP
Version 3.0	December 2015	Added Pluvex (all types)
Version 4.0	June 2017	Added RoofGarden Product
Version 5.0	Nov.2017	Added Permaflash EJ Product

Roofing felts present no inhalation hazard as supplied, however some process activities may result in the generation of either inhalable particles (use of power tools for sanding, cutting, grinding, etc.) or inhalable fumes (heating). The following information is provided to assist employers with assessing any process generated hazards.

PRODUCT	SUBSTANCE			
	(See notes below for occupational exposure limits of substances)			
	Silica <sup>1</sup>	Talc <sup>2</sup>	Rag or Glassfibre <sup>3</sup>	Bitumen <sup>4</sup>
<b>Specification Roofing Range</b>				✓
Ultra prevENT P&R Cap Sheet Slate	✓			✓
Ultra prevENT T-O Cap Sheet Slate	✓			✓
Mach One Cap Sheet Slate	✓			✓
Safestick prevENT Cap Sheet Slate	✓			✓
Safestick prevENT Underlay	✓			✓
Goldseal P&R Cap Sheet Slate	✓			✓
Goldseal T-O Cap Sheet Slate	✓			✓
Superflex P&R Cap Sheet Slate	✓			✓
Superflex T-O Cap Sheet Slate	✓			✓
Systems P&R Underlay	✓			✓
Systems T-O Underlay	✓			✓
Systems S-A Underlay	✓			✓
Systems P&R Vapour Control Layer	✓			✓
Systems T-O Vapour Control Layer	✓			✓
Systems S-A Vapour Control Layer	✓			✓
<b>Commercial and Standard Roofing Ranges</b>				
Permatorch 4.5 APP T-O Cap Sheet Slate	✓			✓
Permatorch Plus Cap Sheet Slate	✓			✓
ProTorch SBS T-O Cap Sheet Slate	✓			✓
Turbo Torch T-O Cap Sheet Slate	✓			✓
TGX SBS T-O Cap Sheet Slate	✓			✓
Adesso APP T-O Cap Sheet Slate	✓			✓
IKO SBS T-O Cap Sheet Slate	✓			✓
IKO APP T-O Cap Sheet Slate	✓			✓
IKO 4KG APP Plain Waterproofing Membrane	✓		✓	✓
IKO SBS Standard Underlay	✓			✓
IKO SBS Premium Underlay	✓			✓
IKO APP Polyester Universal Underlay	✓			✓
IKO APP Glass Universal Underlay	✓		✓	✓
IKO T-O Venting Layer			✓	✓
Torflex SBS / APP T-O Cap Sheets Slate	✓			✓
Torflex APP Smooth T-O Underlay		✓		✓
Challenger SBS P&R Sand & Slate	✓			✓
Challenger Polyester P&R Sand & Slate	✓			✓
Elastomeric SBS P&R Sand & Slate	✓			✓
Marley Polyester / Lightweight Polyester P&R Sand	✓			✓
Coldseal Cap Sheet	✓			✓
Britorch APP Torch On Capsheet	✓			✓
Britorch SBS Torch On Capsheet	✓			✓
Pluvex Range (including pre-cut)	✓		✓	✓
Coldseal Underlay			✓	✓

<b>Specialist Roofing Products &amp; Accessory Items</b>				
Permaflash EJ ( <i>all sizes</i> )	✓			✓
Permatorch Anti-Root / Roofgarden	✓			✓
Superflex T-O Copper			✓	✓
Quadra PrevENT T-O Dark Grey Slate	✓			✓
Quadra Rock Partial Bond T-O Underlay	✓			✓
Polygum PrevENT T-O Dark Grey Slate	✓			✓
PermaGUARD-F	✓			✓
Polimar Preparation Layer	✓		✓	✓
Pre-formed details	✓			✓
Superflex Pipe & Outlet Flashing Plain / Slate	✓			✓
<b>Traditional &amp; Retail Roofing Range</b>				
IKO Perforated Slate Underlay	✓		✓	✓
IKO Glass Fibre Underlay	✓		✓	✓
IKO Glass Fibre Capsheet	✓		✓	✓
IKO Perforated Sand Underlay	✓		✓	✓
IKO Glass Fibre SBS Capsheet	✓		✓	✓
IKO Undertile Felt	✓			✓
IKO Eaves Protection Strip	✓			✓
IKO Trade Underlay - Medium - Heavy	✓			✓
IKO Shed Felt	✓		✓	✓
IKO Trade Top Sheet	✓			✓
Bituminous Roofing Shingles	✓		✓	✓
Shed Felt Slate / Super Shed Felt Slate	✓		✓	✓
Traditional Garage Underlay / Top Sheet	✓			✓
Self-Adhesive Underlay / Top Sheet	✓		✓	✓
<b>Preparation Layers</b>				
Polimar Preparation Membrane			✓	✓

#### **NOTES**

1. Silica is present as a constituent of the sand and mineral slate surfaced finishes used. The WEL, 8 hour TWA for amorphous silica is 6 mg/m<sup>3</sup> (inhalable dust) and 2.4 mg/m<sup>3</sup> (respirable dust).
2. Talc may be present as a surface finish. The WEL, 8-hour TWA, for respirable dust is 0.1 mg/m<sup>3</sup>.
3. Glass fibre is present as a reinforcing base encapsulated in bitumen. Exposure levels are likely to be very low in normal use. The WELs, 8-hour TWA, are 5mg/m<sup>3</sup>, for total inhalable dust, and 2 fibres/ml, when determined by an HSC approved method.
4. All products listed above contain bitumen. The WELs for Asphalt, Petroleum Fumes (bitumen) are 5 mg/m<sup>3</sup> (8-hour TWA) and 10 mg/m<sup>3</sup> (15 min ref period).
5. In some cases of burning bituminous products at high temperatures, an emission of hydrogen sulphide has been detected, Hydrogen Sulfide is a toxic, flammable, colorless, liquefied gas. Hydrogen Sulfide has a distinct "rotten-egg" smell. The odor cannot be relied on as an adequate warning of the presence of Hydrogen Sulfide because at high concentrations olfactory fatigue occurs. The WELs for Hydrogen Sulphide is 10ppm at a 10 minute exposure period