

# Material Safety Data Sheet

## AXTER NEO-BITUMEN™ FLAME FREE BITUMEN WATERPROOFING SYSTEMS\* Flame Free Membranes

### PRELIMINARY REMARKS

In compliance with current legislation on substances and mixtures, notably Regulation REACH (EC) No. 1907/2006 and Regulation CLP (EC) No. 1272/2008, the products covered by this document are defined as an 'article'. Unlike suppliers of substances and mixtures, suppliers of articles are not required to provide their customers with standardized information<sup>1</sup> as a Safety Data Sheet. Although products covered by this document are not subject to the mandatory issue of a Safety Data Sheet, Axter wishes to provide users with a Material Safety Data Sheet (MSDS) following the 16 point format of Annex II of the REACH Regulation, according to amendments from EU Regulation 2015/830.

<sup>1</sup> with the exception of articles that contain SVHC (Substances of Very High Concern) in a concentration above 0.1% weight by weight (w/w) for which information must be provided in accordance with Article 33 of the REACH Regulation.

### 1 PRODUCT & SUPPLIER IDENTIFICATION

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|------------|---------------------|--|
| <b>1.1</b> | <b>Product Name</b> | Axter Neo-Bitumen™ Flame Free Waterproofing Systems (excl. Force Dalle Flame Free*).                   |
| <b>1.2</b> | <b>Relevant Use</b> | Waterproofing applications ( i.e: buildings, living roofs, bridges, tunnels, transport infrastructure) |

\* excludes Force Dalle Flame Free. For this product, refer to Axter Waterproofing Membranes VSDS 1214.

- 1.3 Supplier Identification** Axter Ltd  
West Road, Ransomes Europark, Ipswich IP3 9SX, UK  
www.axter.co.uk  
tel: +44 1473 724056, 8.00 am to 5.30 pm, Monday to Friday only
- 1.4 In case of emergency:** tel: +44 1473 724056, 8.00 am to 5.30 pm, Monday to Friday only  
Apply the First Aid and Fire regulations described below.  
In the event of a medical enquiry relating to this product, contact your doctor or local hospital accident and emergency department.

## 2. HAZARD IDENTIFICATION

- 2.1 Classification:** The product is not classified as hazardous in accordance with the national regulation (D.Lgs. n. 65/03).  
When applied, rolls are extended on the surface to be protected; the application may be by hot or cold bonding technique, taking care to ensure correct securing of side and end laps.
- 2.2 Health Risk:** Acute nose and throat irritation are possible during the heat treatment and application of the product, especially in indoor areas, due to the inhalation of potentially hazardous substances such as gas and condensed fumes.
- 2.3 Safety Risk:** The molten product may adhere to the skin and may cause burns. The presence of inflammable materials (HC vapours, etc.) may cause fire events.
- 2.4 Environmental Risk:** Membranes may cause long-term adverse effects because their components are not biodegradable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Composition:** The product consists of a mixture of penetration grade bitumen and polyolefin and/or elastomer polymers, manufactured in membrane rolls.
- 3.2 Ingredient information:** The product does not contain any hazardous components, in accordance with the national regulation (D.Lgs. n. 65/03).

## 4. FIRST AID MEASURES

- 4.1 Inhalation:** In case of long-term inhalation of fumes, particularly in indoor areas, move person to fresh air and call for medical assistance.
- 4.2 Skin contact:** In case of the molten product coming into contact with skin, immediately flush skin with plenty of fresh water. Do not pull solidified product away from the skin by using solvents. Remove contaminated clothing immediately and seek immediate medical advice.

- 4.3 Eye contact:** If melted substance has got into eyes, wash out with water for at least 15 minutes and seek immediate medical attention. Do not pull product away from the eye. In case of irritation by fumes wash out with cold water.
- 4.4 Ingestion** Seek immediate medical attention.
- 5. FIREFIGHTING MEASURES**
- 5.1 Extinguishing media:** CO<sub>2</sub>, nebulized water, foam, dry chemical. Do not use direct stream of water to extinguish.
- 5.2 Personal protection:** PERSONAL PROTECTION: In the event of fire, use supplied air respirators with universal filter U.P.
- 6. MEASURES IN CASE OF ACCIDENTAL SPILLAGE/RELEASE**  
Not applicable.
- 7. STORAGE AND APPLICATION**
- 7.1 Conditions for safe storage:** Protect material from heat and direct sunlight (temperature 0°- 40°C) and keep away from electrical equipment.  
  
Keep rolls in a vertical position and do not stack them. For safe storage follow the specific storage recommendations for this product.  
  
It is not necessary to take precautionary measures to prevent the formation of static electricity. Open flames are prohibited. Keep extinguish media available (Point 5).
- 7.2 Precautions for safe handling** Provide appropriate ventilation when the product is applied in indoor areas.
- 7.3 Precautions for use** Membrane applications should follow the manufacturer's instructions according to the principles of good technique and safety (point 8.16). In the case of indoor applications, use Personal Protective Equipment (point 8). Avoid open flames.
- 8. EXPOSURE CONTROL AND PERSONAL PROTECTION**
- 8.1 Exposure controls:** Open flame operations involved in installing bitumen-polymer waterproofing membranes may generate the dispersion of potentially hazardous substances.  
  
Provide appropriate ventilation when the product is applied in indoor areas (Point 2) in order to keep the exposure levels below the required limits (T.L.V.- ACGIH).

- 8.2 Personal protective equipment:** During product applications, the following personal protective equipment is recommended:
- Skin protection: protective gloves; long sleeved shirt, trousers, safety shoes.
  - Eye protection: safety glasses
  - Foot protection: safety shoes
- In case of indoor applications provide appropriate ventilation (Point 8.1). In case of inadequate ventilation system, use a respiratory protection equipment. The use of particulate filter respirators against solid & liquid particles is recommended (P3 protection).
- 8.3 Hygiene measures**
- Wash hands before every break and after the work shift.
  - Keep work clothes separate from the other clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Rolls of membrane
<b>Odour:</b>	Slight bitumen odour
<b>pH:</b>	not applicable
<b>Boiling point/range:</b>	> +470°C approx. (bitumen)
<b>Melting point/range:</b>	> +100°C approx.
<b>Flash point:</b>	> +230°C approx. (bitumen)
<b>Flammability (solids, gas):</b>	calorific value 9000 kcal/kg approx.
<b>Self ignition:</b>	> +485°C approx. (bitumen)
<b>Explosive properties:</b>	NO
<b>Burning properties:</b>	NO
<b>Vapour pressure:</b>	not applicable
<b>Density:</b>	1 -1.5 kg/dm <sup>3</sup>
<b>Solubility:</b>	Water solubility: NO
<b>Lipid solubility:</b>	YES (organic solvents, oils)

## 10. STABILITY AND REACTIVITY

- 10.1 Stability:** The product is stable and is not considered to be reactive under normal temperature and pressure.
- 10.2 Reactivity:** The product is chemically inert.
- 10.3 Incompatible materials:** Avoid contact with oxidizing agents, because under high temperatures the product may have exothermic reactions.

## 11. TOXICOLOGICAL INFORMATION

- 11.1 The Product:** The product consists in a mixture of distilled bitumen and polyolefin and/or elastomer polymers and reinforcement .The product does not contain coal tar and asbestos. The product is not classified as hazardous.
- 11.2 Information on toxicological effects:** The product may be applied in adhesive cold or heat welded. Open flame operations involved in installing bitumen-polymer waterproofing membranes may generate the dispersion of potentially hazardous substances.
- The exposure levels to these substances are widely below the normative limits for VOC fumes in metropolitan areas (Source: Bertazzi PA, FOA' V., Fustinoni S., see section 16)
- Acute health hazards:
- eye irritation
  - skin irritation
  - nose and throat irritation
- Repeated long-term exposure needs regular medical examination, in accordance with national regulation (D.L. 25/2002 and DLgs 81/2008 and subsequent modifications)
- The product should be applied in accordance with the rules of hygiene, safety and good industrial practice, according to the technical instructions provided by the manufacturer.

## 12. ECOLOGICAL CONSIDERATIONS

The product must be stored and used in accordance with the rules of hygiene, safety and good industrial practice, according to the technical guidance provided by the manufacturer (Point 7)

Dispose of this product according to national regulations, in order to avoid environmental pollution (Point 13).

## 13. DISPOSAL CONSIDERATIONS

Dispose of the product in landfill.

The product is classified as non hazardous special waste in accordance with national regulations (D.Lgs 152/2006 and subsequent modifications)

## 14. TRANSPORT INFORMATION

No special transportation or shipping requirements.

## 15. REGULATORY INFORMATION

- 15.1 Label:** No labelling required  
Hazards statements (H phrases): not applicable  
Precautionary statements (P phrases): not applicable
- 15.2 European Regulations:** Directive 67/548/CEE, Directive 1999/45/CE, Directive 91/155/CEE, Directive 92/32/CEE, Directive 93/67/CEE Regulation 793/93, Regulation 1488/94, Directive 98/24/CE, Directive 2001/60/CE, Directive 2004/73/CEE, Regulation (CE) n. 1907/2006 (REACH), Directive 2008/98/CE, Regulation EU 830/2015 May 20th 2015 and subsequent modifications and integrations.
- 15.3 National Regulations:** D.Lgs. 14 March 2003, no. 65; DPR 9 June 1975, no. 482, D.Lgs 5 February 1997 No. 22, DPR 13 April 1994, no. 336, D.Lgs. 2 February 2002 no. 25, D.Lgs. 3 February 1997 no. 52; D.Lgs n° 285/98; Dlgs 152/2006, D.Lgs. n. 81/2008; D.lgs. n.106/2009 and subsequent modifications and integrations.

## 16. OTHER INFORMATION

Main sources of information for this safety data sheet:

-Istituto Superiore di Sanità – Prot. 30189/TOA6 del 10 ottobre 1997 “Classificazione di pericolosità del bitume e del catrame”

-NIOSH Registry of toxic effects of chemical substances SAX Dangerous Properties of industrial materials.

-Bertazzi P.A., Foà V., Fustinoni S., “Esposizione professionale a idrocarburi policiclici aromatici durante la stesura bituminosa”, Università degli Studi di Milano, Dipartimento di Medicina del Lavoro, Milano, 2005.

-ACGIH: Threshold Limit Values (TLV) for chimica substances (2008).

-Atti del Convegno su Salute e sicurezza nelle opere di impermeabilizzazione con membrane bituminose, Albino 18 dicembre 2009)

This safety data sheet includes the 16 headings above in accordance with Annex II of COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

The information provided in this document is accurate to the best of our knowledge. The document does not constitute a specification and Axter takes no responsibility for the suitability of the product in a particular use. It is the user's responsibility to ensure that the product is suitable for the intended application and use and to take the necessary precautions to ensure that during handling, storage and installation of the product, all regulations to guarantee safety of people and the environment are observed. For further information or technical design assistance, contact Axter Ltd.