

## 200211 - Road Stud Adhesive Polymer Modified Bitumen



### SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) 453/2010

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

##### 1.1. Product identifier

Product Name	Road Stud Adhesive Polymer Modified Bitumen
Product Inclusion	This document covers Road Stud Adhesive Polymer Modified Bitumen only.
Container Size	Variable

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

Identified Uses	Polymer Modified Road Stud Adhesive. For professional use only.
Uses advised against	No specific uses advised against are identified.

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

Supplier	Meon Ltd. Railside Northarbour Spur Portsmouth PO6 3TU +44 (0) 23 9220 0606 mail@meonuk.com
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##### 1.4. Emergency Telephone Number

Emergency telephone	+44 (0) 808 118 1922
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#### SECTION 2: Hazards identification

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

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

Not classified as dangerous.

Classification according to Dangerous Preparation Directive - EC Directive 1999/45/EC

Not classified as dangerous

##### 2.2. Label Elements

Hazard pictograms

Not classified as dangerous

##### 2.3. Other hazards

Hot material may cause burns. Hot application hazards vary considerably to room temperature application hazards. The risk management measures of both situations are outlined in the material safety data sheet.

#### SECTION 3: Composition/information on ingredients

SUBSTANCE [ ] MIXTURE [X]

##### Dangerous component(s)

Ingredient	Index No: CAS No: EC No: Reach No:	R-Phrases	Concentration %
		CLP Hazard Statements	
Asphalt	- 8052-42-4 232-490-9		25.0 –< 50.0

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### SECTION 4: First aid measures

Show this safety data sheet to the doctor in attendance.

#### 4.1. Description of first aid measures

<b>In case of inhalation:</b>	Vapours from heated material may cause irritation of the respiratory system. Symptoms may include cough, headache or throat pain. This product does not contain substances classified as dangerous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.
<b>In case of skin contact:</b>	In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters), seek medical advice with this Safety Data Sheet. In the event of splashes from the hot product, they should be soaked with cold water to cool the bitumen as quickly as possible. The bitumen should not be removed as it can cause serious damage to the skin. Seek medical attention.
<b>In case of eye contact:</b>	This product does not contain substances classified as dangerous for eye contact. Rinse eyes thoroughly for at least 15 minutes with luke warm water, ensuring that the person affected does not rub or close their eyes. Hot: Vapours can cause eye irritation. Symptoms may include redness, swelling, pain and blurred vision. In case of burns, flush eyes with large amounts of water, DO NOT ATTEMPT TO REMOVE solidified material. Seek medical assistance.
<b>In case of ingestion:</b>	In case of consumption, seek immediate medical assistance showing the MSDS of this product.
<b>Self-protection of the first aider:</b>	

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

Acute and delayed effects are indicated in sections 2 and 11.

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

If accidentally splashed with hot bitumen DO NOT attempt to remove the bitumen. Drench with cold water and seek medical advice

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Powder
<b>Extinguishing media which must not be used for safety reasons</b>	Tap water

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

<b>Specific hazards during firefighting</b>	As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.
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#### 5.3. Advice for firefighters

<b>Special protective equipment for firefighting</b>	Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit) in accordance with Directive 89/654/EC.
<b>Additional provisions</b>	Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to fire, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: Accidental release measures

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

Hot application: increase ventilation, eliminate all sources of ignition and allow the product to cool.

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal See sections 8 and 13.

### 6.2. Environmental precautions

Avoid environmental spillage of both the product and its container.

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

If molten, allow to solidify, sweep up and shovel product or other means and place in container for reuse (preferred) or disposal.

### 6.4. Reference to other sections

See section 8 and 13 for further information.

## SECTION 7: Handling and storage

### 7.1. Precautions on safe handling

Avoid contact with hot liquids. Do not exceed recommended storage and handling temperatures. Use clean, dry and heat-resistant hoses. Do not use steam to empty tubes and hoses, Do not use solvents to clean tube obstructions Use suitable personal protection equipment.

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container.

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

Min temp.: 5°C. Max temp.: 30°C. Max time: 12 Months

Avoid sources of heat, radiation, static electricity and contact with food.

### 7.3. Specific end uses

The product is hot poured, DO NOT heat above 200°C. DO NOT allow water to come into contact with molten bitumen.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Ingredients with Occupational Exposure Limits  
(UK WELS)

Name	%	LTEL ppm	STEL ppm	STEL mg/m <sup>3</sup>	LTEL mg/m <sup>3</sup>	OEL Note
Asphalt				10	5	

### 8.2. Exposure controls

**General safety and hygiene measures in the work place**

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC.

**Respiratory protection**

Filter mask for particles.

**Specific protection for the hands**

Heat-resistant chemical protection gloves.

**Ocular and facial protection**

Heat-resistant face cover

**Bodily protection**

Heat-resistant protective clothing and footwear.

**Additional emergency measures**

Emergency shower and eyewash station

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

## SECTION 9: Physical and Chemical Properties

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

Physical state at 20°C	Solid
Colour	Black
Density at 20°C	1485 kg/m <sup>3</sup>
Relative density at 20°C	1.485
Flash point	Non Flammable (>60°C)

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Autoignition temperature 306°C

### 9.2. Other information

VOC Content g/l: 0

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4. Conditions to avoid

Avoid temperatures and storage areas exceeding the recommended temperatures (see technical documentation).

Avoid product contact with water during use, as it may cause serious problems.

### 10.5. Incompatible materials

Auto ignition at the surfaces of porous or fibrous materials impregnated with this product, can occur at temperatures as low as 100°C.

### 10.6. Hazardous decomposition products

carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute Toxicity:

Toxicological information:

Name According to EEC	Oral LD50 (RAT)	Dermal LD50 (RAT)	Dermal LD50 (RBT)
Not available			

### Information on toxicological effects

#### Ingestion

The classification criteria are not met.

#### Inhalation

The classification criteria are not met.

#### Contact with the skin and eyes

The classification criteria are not met.

#### CMR effect

The classification criteria are not met.

#### Sensitizing effect

The classification criteria are not met.

#### STOT-time exposure

The classification criteria are not met.

#### STOT-repeated exposure

The classification criteria are not met.

#### Aspiration hazard

The classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

No information.

### 12.2. Persistence and degradability

No data is available.

### 12.3. Bioaccumulative potential

No data is available

### 12.4. Mobility in soil

No data is available.

### 12.5. Results of PBT and vPvB assessment

Non-applicable.

### 12.6. Other adverse effects

Contain spills with sand or other inert material. allow to cool and shovel into suitable containers for disposal. Do not allow the product to enter drains, rivers or streams.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2000/532/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

#### **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated Community legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000.

## **SECTION 14: Transport information**

If the product is transported at a temperature in excess of 100°C, the transport code UN3257 - Elevated Temperature Liquid N.O.S (Bitumen) is applicable.

14.1 UN number	Non-applicable
14.2 UN proper shipping name	Non-applicable
14.3 Transport hazard class(es)	Non-applicable
14.4 Packing group	Non-applicable
14.5 Environmental hazards	Non-applicable
Marine pollutant	
14.6 Special precautions for user	Non-applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Non-applicable

Further information

## **SECTION 15: Regulatory information**

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

#### **Regulations**

**Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable Regulation (EC) 1005/2009, about substances that deplete the ozone layer:**

Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Non-applicable Regulation (EC) 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):

Non-applicable

#### **Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

#### **Other legislation:**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009, 2009 No. 716

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI

2009 No 1348 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment)

Regulations 2011, 2011 No. 1885 Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits

The Waste Regulations 2011, 2011 No. 988

### 15.2 Chemical safety assessment

The supplier has not carried out evaluation of chemical safety.

### SECTION 16: Other information

#### Legislation related to data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EC) N° 453/2010)

Modifications related to the previous safety card which concerns the ways of managing risks. :

CLP Regulation (EC) n° 1272/2008:

- Pictograms
- Hazard statements
- Precautionary statements

#### Text for Risk phrases and CLP Hazard Statements shown in Section 3 describing each ingredient:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### Directive 67/548/EC and Directive 1999/45/EC:

Non-applicable

#### CLP Regulation (EC) n° 1272/2008:

Non-applicable

#### Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### Principal bibliographical sources:

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

#### List of Wastes"Acronym & Abbreviation Key:

CLP Classification, Labelling & Packaging Regulation

EC European Commission

EU European Union

US United States

CAS Chemical Abstract Service

EINECS European Inventory of Existing Chemical Substances

REACH Registration, Evaluation, Authorization of Chemicals Regulation

GHS Globally Harmonized System of Classification and Labelling of Chemicals

LTEL Long term exposure limit

STEL Short term exposure limit

OEL Occupational exposure limit

ppm Parts per million

mg/m<sup>3</sup> Milligrams per cubic meter

TLV Threshold Limit Value

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety & Health Administration

PEL Permissible Exposure Limits

VOC Volatile organic compounds

g/l Grams per litre

mg/kg Milligrams per kilogram

N/A Not applicable

LD50 Lethal dose at 50%

LC50 Lethal concentration at 50%

EC50 Half maximal effective concentration

IC50 Half maximal inhibitory concentration

PBT Persistent bioaccumulative toxic chemical

vPvB Very persistent and very bioaccumulative

EEC European Economic Community

ADR International Transport of Dangerous Goods by Road

RID International Transport of Dangerous Goods by Rail

## 200211 - Road Stud Adhesive Polymer Modified Bitumen

UN United Nations

IMDG International Maritime Dangerous Goods Code

IATA International Air Transport Association

MARPOL International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978

IBC International Bulk Container

### *Disclaimer*

*This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.*