

# ARBOFLEX<sup>®</sup> PU

## 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND NAME OF THE COMPANY OR ORGANIZATION

### 1.1 Name of the Product

Commercial name: ARBOFLEX

### 1.2 Known correct use of the substance or mixture and potentially hazardous uses

Use: Elastomeric material of polyurethane (polyol and isocyanate) for waterproofing and protection <>

### 1.3 Details of the supplier as listed on the safety data sheet provided

Company:  
Carlisle Construction Materials Ltd.  
Lancaster House, Concorde Way,  
Millennium Business Park,  
Mansfield, Nottinghamshire,  
NG19 7DW  
United Kingdom

### 1.4 Emergency telephone number

01623 27285 (Office hours only)

## 2. IDENTIFICATION OF RISKS/HAZARDS

### 2.1 Classification of the substance or mixture

Health risks: Acute Inhalation Toxicity - Category 4 - Warning (CLP: Acute Tox. 4) H332  
Physical hazards: Flammable liquids - Category 3 - Warning (CLP: Flam. Liq. 3) H226

### 2.2 Identification of risks/hazards

Class and category of risk, EC Regulation Code EC 1272/2008 (CLP)

Risk Pictograms:



Warning message:

Attention

Indication of danger:

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

### Careful handling advice

#### General advice

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

#### Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

#### Response

P378 Use all extinguishing media for extinction

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

#### Safe disposal procedure

P501 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### Contents

Xylene

### 2.3 Other dangers

None under normal conditions

### 3. COMPOSITION/COMPONENT INFORMATION

Chemical description: Mixture

Potentially hazardous components: The product is dangerous

Components list	Contained	N° CAS	N° EC	Index	REACH ref.	Classification
Xylene	10 - 15 %	1330-20-7	215-535-7	601-022-00-9	-	Flam. Liq. 3 _ H226 Acute Tox. 4 (skin) _ H312 Acute Tox. 4 (inhal) _ H332 Skin Irrit. 2 _ H315 STOT SE 3 _ H335
4,4'-Methylenediphenyl Diisocyanate, oligomers	35 - 45 %	25686-28-6	500-040-3	-	01-2119457014-47	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335i STOT RE 2, H373i
Calcium carbonate	20 - 30 %	471-34-1	207-439-9			

### 4. FIRST AID

#### 4.1 First aid procedure

**IN THE EVENT OF INHALATION:** Take the person outside into the fresh air and seat them in a comfortable breathing position. Immediately call a TOXICOLOGY INFORMATION CENTRE or a doctor. Specific treatment is urgently required.

#### **Contact with the skin:**

Remove clothing and thoroughly clean the skin exposed to the product with mild soap and water; rinse off with warm water.

#### **Contact with the eyes:**

Rinse immediately in plenty of water. Seek medical assistance if pain or irritation continues.

#### **Swallowing:**

DO NOT induce vomiting.  
Seek emergency medical attention.

#### 4.2 Main symptoms and effects, acute or delayed

Symptoms related to use:

It is not considered to present significant risk when used responsibly under normal conditions.

#### 4.3 Directions to be followed in the event of any medical attention and special treatment which should be dispensed immediately.

##### **General information:**

Never administer anything by mouth to a person in an unconscious state. If the person feels unwell visit a doctor (and, if possible, show them the product information label).

## 5. PROCEDURE IN THE EVENT OF FIRE

### 5.1. Fire extinction procedures

**Correct methods:**

Foam. Water mist. Dry powder. Carbon dioxide. Sand.

**Incorrect extinction methods:**

Never employ a direct jet of water.

**Risk of fire in the vicinity:**

Use water spray or mist to cool down any containers exposed to fire.

### 5.2 Specific risks resulting from the substance or mixture

**Inflammable nature:**

Inflammable liquid and vapours.

**Products presenting specific dangers on combustion:**

In the event of fire, potentially harmful smoke and vapours may be produced.

### 5.3 Recommendations for all personnel when fighting fires

**Personal protection in the event of fire:**

Never enter the fire area without adequate protective equipment, including respiratory protection.

**Special procedure:**

In the event of chemical fire take all the normal precautions. Avoid water from fire extinction coming into contact with the affected area.

## 6. PROCEDURE IN THE EVENT OF ACCIDENTAL SPILLAGE

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

**For the emergency personnel**

Equip all cleaning personnel with adequate protective clothing and equipment. Ventilate the area.

**Technical procedures**

Take special precautions to avoid any electrical charges. Eliminate all possible sources of ignition. Avoid all naked flames. Do not smoke.

**Special precautions**

Eliminate all possible sources of ignition

## 6.2 Precautions to protect the environment

### **Precautions to protect the environment:**

Avoid spillage of the product into drains or water pipes. If the product does enter public water supply pipes, immediately notify the authorities.

## 6.3 Containment and cleaning methods and materials

### **Cleaning methods:**

Soak up the spilt product using inert solids, such as clay or diatomaceous earth, as quickly as possible. Collect and dispose of spillage in appropriate containers.

# 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

### **Technical protective measures:**

Ensure proper ventilation of the processing area to avoid a build up of vapours. All equipment must be correctly earthed and procedures followed to prevent static electrical charges.

### **Handling:**

Wash hands and exposed skin thoroughly with a mild soap and water before eating, smoking and leaving work. Handle all empty containers with care as residue vapours may still be inflammable.

### **Special precautions:**

Do not expose to naked flames. Do not smoke. Inflammable air-vapour mixtures may be formed on use. Store and handle in the same manner as any other product which represents a serious health risk or potential danger of fire or explosion.

## 7.2 Conditions for safe storage, including possible incompatibilities

### **Storage:**

Always store in the original containers, in cool, well ventilated surroundings. Always keep containers closed when not in use. Keep away from naked flames.

### **Always store away from the following:**

Strong acids and bases. Ignition sources. Direct sunlight. Heat sources.

## 7.3. Specific end uses

### **Specific end uses:**

None.

## 8. PERSONAL PROTECTION/EXPOSURE CONTROLS

### 8.1 Exposure control Personal protection



**Personal protection:** Avoid all unnecessary exposure as far as possible.

**Protection of the respiratory tracts:** In cases where excessive vapour may be produced, always use suitable masks.

**Protection for the hands:** In situations involving repeated contact, always wear gloves.

**Protection for the eyes:** Special chemical product/protective goggles should be worn.

**Other precautions:** Avoid eating and smoking during use

## 9. CHEMICAL AND PHYSICAL PROPERTIES

### 9.1 Information on basic chemical and physical properties

**Physical state:** Viscous liquid

**Colour:** e.t.c.

**Smell:** characteristic

**Odour threshold:** --

**pH value:** --

**Melting point [°C]:** --

**Decomposition point [°C]:** --

**Critical temperature [°C]:** --

**Spontaneous ignition temperature [°C]:** --

**Flammability:** Liquid and vapor flammable

**Flash point [°C]:** >30°C

**Initial boiling point [°C]:** 78 °C

**Final boiling point [°C]:** 87 °C

**Rate of evaporation:** --

**Acidic/alkaline reserves [g NaOH/100g]:** --

**Explosion limits - Lower [%]:** --

**Explosion limits - Upper [%]:** --

**Vapour pressure mm/Hg:** --

**Vapour density:** --

**Density [g/cm<sup>3</sup>]:** 1,4 - 1,5

**Water solubility [% in weight]:** --

**Water solubility:** Insoluble

**Log Pow octanol / water at 20°C:** --

**Solubility:** Organic Solvents

**Viscosity a 20°C [mPa.s]:** 5.000 - 7.000

### 9.2 additional information

**Explosive properties:** --

**Oxidising properties:** --

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

**Reactivity:** Not Known

### 10.2. Stability

**Chemical stability:** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of dangerous reactions

**Dangerous reactions:** Not known

### 10.4. Situations to avoid

**Situations to avoid:**

Avoid excessive heat for prolonged periods of time.

### 10.5. Materials to avoid

**Materials to avoid:** Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products:**

Fumes may give off flammable gases.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity:** Harmful if inhaled.

**Corrosivity:** Yet to be established.

**Irritation:** Yet to be established.

**Awareness:** Yet to be established.

**Mutagenicity:** Yet to be established.

**Carcinogenesis:** Yet to be established.

**Toxic for reproduction:** Yet to be established.

**Specific toxicity in certain organisms on first exposure:** Yet to be established.

**Specific toxicity in certain organisms on repeated exposure:** Yet to be established.

**Aspiration hazard:** Yet to be established.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Toxicity information:**  
Yet to be established.

### 12.2 Persistency - degradability

**Persistency - degradability:** Biodegradable.

### 12.3 Potential for bioaccumulation

**Potential for bioaccumulation:** Yet to be established.

### 12.4 Soil mobility

**Log Pow octanol / water at 20°C:** No data available.  
**Soil mobility:** Yet to be established.

### 12.5 Results of PBT & vPvB assessment

**Results of PBT & vPvB assessment:** Not applicable.

### 12.6 Other adverse effects

**Precautions for protection of the environment:** Avoid release into the environment.

## 13. DISPOSAL CONSIDERATIONS/PROCEDURES

### 13.1. Correct procedure for the treatment of residues

**General:**

Avoid release into the environment. Disposal or dumping in accordance with local/ national legislation.

**Special precautions:**

Handle all empty containers with care as residue vapours may still be inflammable.



## 14. TRANSPORTATION INFORMATION

Transport Regulations: ARBOFLEX			
Transport Regulations	ADR	IMDG	IATA
ONU Number	Not classified		
Name	---		
NEP Name	---		
NOS Name	---		
Danger Labels	---		
Packing group	---		
Tunnels classification	---	---	---
Flash point (°C)	---		
Dangerous environment / Marine Pollutant	---	---	---
Packing Instruction	---	---	---

## 15. REGULATORY INFORMATION

### 15.1 Specific legislation and regulations relating to health, safety and the environment applicable to the substance or mixture

#### Legislation and regulations relating to health, safety and the environment:

Ensure compliance with all local and national laws and regulations.

### 15.2 Chemical safety assessment

#### Chemical safety assessment:

Not undertaken.

## 16. OTHER INFORMATION

**Abbreviations and acronyms:** Not applicable.

**Source of data:**

(EC) Regulation No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND COUNCIL dated 16th December 2008 relating to the classification, labelling and packaging of substances and mixtures, issued for the purpose of modifying and replacing EEC Directives 67/548/EEC and 1999/45/EC and modifying (EC) Regulation No. 1907/2006

**List of referenced H phrases:**

H226 Flammable liquid and vapour.  
H332 Harmful if inhaled.

**List of referenced P phrases:**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P378 Use use all extinguishing media for extinction  
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P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
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