



**SAFETY DATA SHEET**  
**ARDEX X 78 S**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name ARDEX X 78 S  
Product No. 18331

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

Identified uses Cement Based Adhesive

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

Supplier Ardex UK Limited  
Homefield Road  
Haverhill  
Suffolk  
CB9 8QP  
Tel. 01440 714939  
Fax. 01440 716667  
e-mail: [safetydatasheets@ardex.co.uk](mailto:safetydatasheets@ardex.co.uk)  
Contact Person Mr. Michael Langdon, Technical Manager

**1.4. Emergency telephone number**

+44 (0) 870 190 6777 (24 hours)

**SECTION 2: HAZARDS IDENTIFICATION**

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

Classification (EC 1272/2008)  
Physical and Chemical Hazards Not classified.  
Human health Skin Irrit. 2 - H315; Eye Dam. 1 - H318  
Environment Not classified.  
Classification (1999/45/EEC) Xi; R38, R41.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**2.2. Label elements**

Contains PORTLAND CEMENT

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements  
H315 Causes skin irritation.  
H318 Causes serious eye damage.

Precautionary Statements  
P102 Keep out of reach of children.  
P280 Wear protective gloves.  
Wear eye protection.  
P262 Do not get in eyes, on skin, or on clothing.

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P305+351+338

P337+313

P402

P501

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
Store in a dry place.  
Dispose of contents/container in accordance with local regulations.  
Dispose of contents/container in accordance with regional regulations.  
Dispose of contents/container in accordance with national regulations.  
Dispose of contents/container in accordance with international regulations.

### **2.3. Other hazards**

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### **3.2. Mixtures**

PORTLAND CEMENT	> 3 %
CAS-No.: 65997-15-1	EC No.: 266-043-4
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335	Classification (67/548/EEC) Xi;R41,R37/38.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: FIRST AID MEASURES

### **4.1. Description of first aid measures**

General information

No recommendation given.

Inhalation

Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin contact

Rinse with water. Contact physician if discomfort continues. Contact physician if irritation continues.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Contact physician if irritation persists. Do not rub eye.

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

Inhalation

No specific symptoms noted.

Ingestion

No specific symptoms noted.

Skin contact

Prolonged skin contact may cause redness and irritation.

Eye contact

May cause blurred vision and serious eye damage.

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

Treat Symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### **5.1. Extinguishing media**

Extinguishing media

The product is non-combustible.

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

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Hazardous combustion products  
No hazardous decomposition products.  
Unusual Fire & Explosion Hazards  
Not known.  
Specific hazards  
Not relevant

### 5.3. Advice for firefighters

Special Fire Fighting Procedures  
No specific fire fighting procedure given.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

For personal protection, see section 8. Avoid inhalation of dust. Avoid contact with eyes and prolonged skin contact.

### 6.2. Environmental precautions

Collect and dispose of spillage as indicated in section 13. Do not allow to enter drains, sewers or watercourses.

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

Avoid generation and spreading of dust. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like.

### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid eating, drinking and smoking when using the product. Avoid inhalation of dust.

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

Keep in original container. Store in a dry place.  
Storage Class  
Storage Class 13

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
PORTLAND CEMENT	WEL		10 mg/m <sup>3</sup>			

WEL = Workplace Exposure Limit.

### 8.2. Exposure controls

Protective equipment



Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

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## Respiratory equipment

Wear respirator if there is dust formation. Dust filter P2 (for fine dust).

## Hand protection

Protective gloves should be used if there is a risk of direct contact or splash. For exposure of 4 to 8 hours use gloves made of: Nitrile. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

## Eye protection

Wear approved safety goggles.

## Other Protection

Wear appropriate clothing to prevent reasonably probable skin contact.

## Hygiene measures

Use appropriate skin cream to prevent drying of skin. Wash hands after handling. When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Powder, dust
Colour	Grey.
Odour	Mineral.
Solubility	Hardens in contact with water. Aqueous solutions are basic.
Initial boiling point and boiling range (°C)	Not applicable.
Melting point (°C)	> 1250 °C
Relative density	2, 75 - 3, 20 g/cm <sup>3</sup>
Bulk Density	900 - 1300 kg/m <sup>3</sup>
Vapour density (air=1)	Not applicable.
Vapour pressure	Not applicable.
Evaporation rate	Not applicable.
Evaporation Factor	Not applicable.
pH-Value, Conc. Solution	11 - 12.5
Viscosity	Not applicable.
Solubility Value (G/100G H <sub>2</sub> O@20°C)	0, 1 - 1, 5 g/l
Decomposition temperature (°C)	Not applicable.
Odour Threshold, Lower	Not applicable.
Odour Threshold, Upper	Not applicable.
Flash point (°C)	Not applicable.
Auto Ignition Temperature (°C)	Not applicable.
Flammability Limit - Lower(%)	Not applicable.
Flammability Limit - Upper(%)	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.

### 9.2. Other information

Not relevant

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

There are no known reactivity hazards associated with this product.

**10.2. Chemical stability**

No particular stability concerns.

**10.3. Possibility of hazardous reactions**

Not applicable.

**10.4. Conditions to avoid**

The product will harden into a hard mass in contact with water and moisture.

**10.5. Incompatible materials**

Materials To Avoid

Strong acids.

**10.6. Hazardous decomposition products**

No hazardous decomposition products.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

Acute toxicity:

Acute Toxicity (Oral LD50)

Not relevant

Acute Toxicity (Dermal LD50)

Not relevant

Acute Toxicity (Inhalation LC50)

Not relevant

Skin Corrosion/Irritation:

Irritating.

Respiratory or skin sensitisation:

Respiratory sensitisation

Not relevant

Skin sensitisation

Not relevant

Germ cell mutagenicity:

Genotoxicity - In Vitro

Not relevant

Reproductive Toxicity:

Reproductive Toxicity - Fertility

Not applicable.

Specific target organ toxicity - single exposure:

Respiratory irritant effects that impair function with symptoms such as cough, pain, choking, and breathing difficulties.

Specific target organ toxicity - repeated exposure:

Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard:

Based on available data the classification criteria are not met.

Inhalation

May cause irritation to the respiratory system.

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### Ingestion

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

### Skin contact

Irritating to skin.

### Eye contact

Risk of serious damage to eyes.

### Health Warnings

Irritating to skin. May cause severe irritation to eyes.

### Route of entry

Skin and/or eye contact.

### Medical Considerations

Splash in eye requires examination by eye specialist.

Toxicological information on ingredients.

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**PORTLAND CEMENT (CAS: 65997-15-1)**

Acute toxicity:

Acute Toxicity (Oral LD50)

Not relevant

Acute Toxicity (Dermal LD50)

Not relevant

Acute Toxicity (Inhalation LC50)

Not relevant

Skin Corrosion/Irritation:

Irritating.

Respiratory or skin sensitisation:

Respiratory sensitisation

Not relevant

Skin sensitisation

Not relevant

Germ cell mutagenicity:

Genotoxicity - In Vitro

Not relevant

Reproductive Toxicity:

Reproductive Toxicity - Fertility

Not applicable.

Specific target organ toxicity - single exposure:

Respiratory irritant effects that impair function with symptoms such as cough, pain, choking, and breathing difficulties.

Specific target organ toxicity - repeated exposure:

Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard:

Based on available data the classification criteria are not met.

Inhalation

Dust may irritate respiratory system or lungs.

Ingestion

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

Repeated exposure may cause skin dryness or cracking.

Dust has an irritating effect on moist skin.

Eye contact

Risk of serious damage to eyes.

Health Warnings

Irritating to skin. May cause severe irritation to eyes.

Route of entry

Skin and/or eye contact.

Splash in eye requires examination by eye specialist.

## SECTION 12: ECOLOGICAL INFORMATION

### **12.1. Toxicity**

Acute Toxicity - Fish

Not relevant

Acute Toxicity - Aquatic Invertebrates

Not relevant

Acute Toxicity - Aquatic Plants

Not relevant

Acute Toxicity - Microorganisms

Not relevant

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Acute Toxicity - Terrestrial

Not relevant

Ecological information on ingredients.

### PORTLAND CEMENT (CAS: 65997-15-1)

Acute Toxicity - Fish

Not relevant

Acute Toxicity - Aquatic Invertebrates

Not relevant

Acute Toxicity - Aquatic Plants

Not relevant

Acute Toxicity - Microorganisms

Not relevant

Acute Toxicity - Terrestrial

Not relevant

### **12.2. Persistence and degradability**

Degradability

The product solely consists of inorganic compounds which are not biodegradable.

Ecological information on ingredients.

### PORTLAND CEMENT (CAS: 65997-15-1)

Degradability

The product solely consists of inorganic compounds which are not biodegradable.

### **12.3. Bioaccumulative potential**

Bioaccumulative potential

The product is not bioaccumulating.

Ecological information on ingredients.

### PORTLAND CEMENT (CAS: 65997-15-1)

Bioaccumulative potential

The product is not bioaccumulating.

### **12.4. Mobility in soil**

Mobility:

The product hardens to a solid immobile substance.

Ecological information on ingredients.

### PORTLAND CEMENT (CAS: 65997-15-1)

Mobility:

The product hardens to a solid immobile substance.

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

This product does not contain any PBT or vPvB substances.

Ecological information on ingredients.

### PORTLAND CEMENT (CAS: 65997-15-1)

This product does not contain any PBT or vPvB substances.

### **12.6. Other adverse effects**

Not applicable.

Ecological information on ingredients.

### PORTLAND CEMENT (CAS: 65997-15-1)

Not applicable.

## SECTION 13: DISPOSAL CONSIDERATIONS



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## General information

The packaging should be collected for reuse.

### **13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Powder to be collected, sealed tightly in bags and disposed on approved landfills.

#### Waste Class

170904: mixed construction and demolition wastes other than those mentioned in 170901, 170902 and 170903

## SECTION 14: TRANSPORT INFORMATION

#### General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### **14.1. UN number**

Not applicable.

### **14.2. UN proper shipping name**

Not applicable.

### **14.3. Transport hazard class(es)**

#### Transport Labels

No transport warning sign required.

### **14.4. Packing group**

Not applicable.

### **14.5. Environmental hazards**

#### Environmentally Hazardous Substance/Marine Pollutant

No.

### **14.6. Special precautions for user**

Not applicable.

### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

## SECTION 15: REGULATORY INFORMATION

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

#### EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. 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 with amendments.

### **15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

#### Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Issued By	Mr. Michael Langdon, Technical Manager (Telephone:01440 714939)
Revision Date	26/01/2015
Revision	2
Supersedes date	15/11/2010

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### Risk Phrases In Full

R37/38 Irritating to respiratory system and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

### Hazard Statements In Full

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

### 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.