



## SAFETY DATA SHEET

### ARBO SOLVENT BASED WATER REPELLENT

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

##### 1.1. Product identifier

**Product name** ARBO SOLVENT BASED WATER REPELLENT

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

**Identified uses** A masonry treatment forming a barrier against rain, the damaging effects of frost and the formation of efflorescence.

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

**Supplier** Adshead Ratcliffe & Co. Ltd.  
Derby Road, Belper  
Derbyshire.  
DE56 1WJ  
Tel. (+44) 01773 826661  
Fax. (+44) 01773 821215  
sds@arbo.co.uk

##### 1.4. Emergency telephone number

**Emergency telephone** (+44) 01773 826661 (office hours only)

#### SECTION 2: Hazards identification

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

###### Classification

**Physical hazards** Flam. Liq. 3 - H226  
**Health hazards** STOT SE 3 - H336 STOT RE 1 - H372 Asp. Tox. 1 - H304  
**Environmental hazards** Aquatic Chronic 2 - H411

##### 2.2. Label elements

###### Pictogram



###### Signal word

Danger

###### Hazard statements

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H336 May cause drowsiness or dizziness.  
H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

## ARBO SOLVENT BASED WATER REPELLENT

<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P261 Avoid breathing vapour/spray.</p> <p>P273 Avoid release to the environment.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P313 Get medical advice/attention.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>
<b>Contains</b>	HYDROCARBONS C9-12, n-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

### 2.3. Other hazards

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

##### 3.2. Mixtures

<b>HYDROCARBONS C9-12, n-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)</b>	<b>60-100%</b>
CAS number: —	EC number: 919-446-0
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H336 STOT RE 1 - H372 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	

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

**Composition comments** Functional siloxanes,,and metal catalyst,,in solvent mixture.

#### SECTION 4: First aid measures

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

<b>General information</b>	In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. DO NOT induce vomiting. Get medical attention immediately. Danger of aspiration.
<b>Skin contact</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

<b>Inhalation</b>	Vapours may cause headache, fatigue, dizziness and nausea.
<b>Ingestion</b>	May cause stomach pain or vomiting. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
<b>Skin contact</b>	May cause irritation.

## ARBO SOLVENT BASED WATER REPELLENT

**Eye contact** May cause serious eye damage. Vapour or spray in the eyes may cause irritation and smarting.

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

**Specific treatments** No specific recommendations.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Foam, carbon dioxide or dry powder. Water spray, fog or mist.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** The product is flammable. Closed containers can burst violently when heated, due to excess pressure build-up. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

**Hazardous combustion products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Hydrocarbons.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear appropriate protective clothing. Avoid inhalation of vapours and contact with skin and eyes. Eliminate all sources of ignition. Ventilate area to dispel any residual vapours.

### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb small quantities with paper towels and evaporate in a safe place. Large Spillages: Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Keep away from heat, sparks and open flame. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Use approved respirator if air contamination is above an acceptable level.

## ARBO SOLVENT BASED WATER REPELLENT

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product.

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

**Storage precautions** Keep away from oxidising materials, heat and flames. Store in tightly-closed, original container in a dry, cool and well-ventilated place.

**Storage class** Flammable liquid storage.

### 7.3. Specific end use(s)

**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

#### Occupational exposure limits

#### HYDROCARBONS C9-12, n-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

Long-term exposure limit (8-hour TWA): WEL 350 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### HYDROCARBONS C9-12, n-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

#### DNEL

Workers - Inhalation; Long term systemic effects: 330 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 44 mg/kg/day  
 General population - Inhalation; Long term systemic effects: 71 mg/m<sup>3</sup>  
 General population - Dermal; Long term systemic effects: 26 mg/kg/day  
 General population - Oral; Long term systemic effects: 26 mg/kg/day

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Wear approved safety goggles.

#### Hand protection

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

#### Other skin and body protection

Provide eyewash station.

#### Hygiene measures

Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Organic vapour filter.

#### Environmental exposure controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

## SECTION 9: Physical and Chemical Properties

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

## ARBO SOLVENT BASED WATER REPELLENT

<b>Appearance</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Paraffinic
<b>Odour threshold</b>	Not applicable.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not applicable.
<b>Initial boiling point and range</b>	Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics: 150 - 200°C @ 760 mm Hg
<b>Flash point</b>	Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics: >=38°C CC (Closed cup).
<b>Evaporation rate</b>	Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics: 65 (diethyl ether = 1)
<b>Upper/lower flammability or explosive limits</b>	Upper flammable/explosive limit: Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics: 7 Lower flammable/explosive limit: Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics: 0.7
<b>Vapour pressure</b>	Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics: <5 hPa @ 20°C
<b>Vapour density</b>	No data available
<b>Relative density</b>	0.8 @ 20°C
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not applicable.
<b>Auto-ignition temperature</b>	Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics: >230°C
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics: 0.95 m <sup>2</sup> /s @ 40°C
<b>Explosive properties</b>	Not known.
<b>Oxidising properties</b>	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

### 9.2. Other information

**Other information** Not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Will not polymerise.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

### 10.5. Incompatible materials

## ARBO SOLVENT BASED WATER REPELLENT

**Materials to avoid** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** There are no data available on this product.

#### Skin corrosion/irritation

**Animal data** Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

#### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

#### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Does not contain any substances known to be mutagenic.

#### Carcinogenicity

**Carcinogenicity** Does not contain any substances known to be carcinogenic.

#### Reproductive toxicity

**Reproductive toxicity - development** Does not contain any substances known to be toxic to reproduction.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on constituents classified as a specific target organ toxicant after single exposure. May cause drowsiness and dizziness.

#### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Target organs** Central nervous system

#### Aspiration hazard

**Aspiration hazard** The product is classified as having an aspiration hazard.

#### **Inhalation**

May cause drowsiness or dizziness. Vapours may irritate throat and respiratory system and cause coughing.

#### **Ingestion**

Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

#### **Skin contact**

Prolonged and frequent contact may cause redness and irritation.

#### **Eye contact**

Vapour or spray in the eyes may cause irritation and smarting.

#### Toxicological information on ingredients.

**HYDROCARBONS C9-12, n-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)**

## ARBO SOLVENT BASED WATER REPELLENT

### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >15000 mg/kg, Oral, Rat

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >3400 mg/kg, Dermal, Rabbit

### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> >13.1 mg/l, Inhalation, Rat

### Skin corrosion/irritation

**Animal data** Not irritating. Average erythema score: 1.22 Oedema score: Very slight oedema - barely perceptible (1).

### Serious eye damage/irritation

**Serious eye damage/irritation** Not irritating.

## SECTION 12: Ecological Information

**Ecotoxicity** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### 12.1. Toxicity

**Toxicity** There are no data for the product.

### Ecological information on ingredients.

#### HYDROCARBONS C9-12, n-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 10 - 30 mg/l, Onchorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 10 - 22 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 4.1 mg/l, Pseudokirchneriella subcapitata

**Acute toxicity - microorganisms** EC<sub>50</sub>, 48 hours: 43.98 mg/l, Bacteria

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.097 mg/l, Daphnia magna

### 12.2. Persistence and degradability

**Persistence and degradability** The product is expected to be biodegradable.

### Ecological information on ingredients.

#### HYDROCARBONS C9-12, n-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2-25%)

**Biodegradation** - Degradation 75%: 28 days

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not applicable.

## ARBO SOLVENT BASED WATER REPELLENT

### 12.4. Mobility in soil

**Mobility** The product is insoluble in water.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Absorb in vermiculite, dry sand or earth and place into containers. Waste material and any included combustible absorbent and containers should be suitable for incineration at an approved facility.

**Waste class** HP3 Flammable HP5 STOT / Aspiration toxicity HP14 Ecotoxic

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 1993

**UN No. (IMDG)** 1993

**UN No. (ICAO)** 1993

**UN No. (ADN)** 1993

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** FLAMMABLE LIQUID, N.O.S.

**Proper shipping name (IMDG)** FLAMMABLE LIQUID, N.O.S.

**Proper shipping name (ICAO)** FLAMMABLE LIQUID, N.O.S.

**Proper shipping name (ADN)** FLAMMABLE LIQUID, N.O.S.

### 14.3. Transport hazard class(es)

**ADR/RID class** 3

**ADR/RID classification code** F1

**ADR/RID label** 3

**IMDG class** 3

**ICAO class/division** 3

**ADN class** 3

## ARBO SOLVENT BASED WATER REPELLENT

### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

EmS	F-E, S-E
ADR transport category	3
Emergency Action Code	•3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

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

### SECTION 15: Regulatory information

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

EU legislation	Regulation (EC) 1907/2006 REACH. Regulation (EC) 1272/2008 CLP.
Guidance	Workplace Exposure Limits EH40.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

Revision comments	Classification and labelling according to CLP Regulations.
Revision date	01/06/2015
Supersedes date	25/09/2012
SDS number	10200

## ARBO SOLVENT BASED WATER REPELLENT

### Hazard statements in full

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

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.