

## SAFETY DATA SHEET ARBOKOL AG1

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

#### 1.1. Product identifier

Product name ARBOKOL AG1

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

Identified uses Sealant.

#### 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

(+44) 01773 826661 (office hours only)

### SECTION 2: HAZARDS IDENTIFICATION

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

Classification (1999/45/EEC) Repr. Cat. 2;R61. R52/53.

Human health

Contains a substance/a group of substances which may cause harm to the unborn child.

Environment

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

#### 2.2. Label elements

Contains SODIUM PEROXOBORATE

Labelling



Toxic

Risk Phrases

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R61

May cause harm to the unborn child.

Safety Phrases

S45

In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

S53

Avoid exposure - obtain special instructions before use.

S60

This material and its container must be disposed of as hazardous waste.

P11

Restricted to professional users.

#### 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

# ARBOKOL AG1

LIQUID POLYSULPHIDE POLYMER with thiol end groups (MW >1800)	10 - 30%
CAS-No.: 68611-50-7	EC No.:
Classification (EC 1272/2008) Aquatic Chronic 3 - H412	Classification (67/548/EEC) R52/53.
HYDROGENATED TERPHENYL	1 - 5%
CAS-No.: 61788-32-7	EC No.: 262-967-7
Classification (EC 1272/2008) Aquatic Chronic 4 - H413	Classification (67/548/EEC) R53.
CALCIUM OXIDE	1 - 5%
CAS-No.: 1305-78-8	EC No.: 215-138-9
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335	Classification (67/548/EEC) Xi;R37/38,R41.
SODIUM PEROXOBORATE	< 1%
CAS-No.: 10332-33-9	EC No.: 231-556-4
Classification (EC 1272/2008) Ox. Liq. 2 - H272 Acute Tox. 4 - H302 Eye Dam. 1 - H318 Repr. 1A - H360Df STOT SE 3 - H335	Classification (67/548/EEC) Repr. Cat. 1;R61. Xn;R22. Repr. Cat. 3;R62. Xi;R37,R41. O;R8.

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

## Composition Comments

Polysulphide polymer, with fillers, plasticiser and auxiliaries.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General information

In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

#### Inhalation

Fresh air. Get medical attention if any discomfort continues.

#### Ingestion

Immediately rinse mouth and drink plenty of water (200-300 ml). Give milk instead of water if readily available. Get medical attention.

#### Skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

#### Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

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

#### Inhalation.

No specific symptoms noted.

# ARBOKOL AG1

Ingestion

May cause discomfort if swallowed.

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

Treat Symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

Extinguishing media

Water spray, foam, dry powder or carbon dioxide.

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**

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

In case of fire, toxic gases may be formed. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Sulphurous gases (SO<sub>x</sub>).

### **5.3. Advice for firefighters**

Special Fire Fighting Procedures

Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Wear self contained breathing apparatus.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Wear appropriate protective clothing.

### **6.2. Environmental precautions**

Do not allow to enter drains, sewers or watercourses.

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

DO NOT touch spilled material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Flush area with water. Do not contaminate water sources or sewer.

### **6.4. Reference to other sections**

For personal protection, see section 8. See section 11 for additional information on health hazards. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12. For waste disposal, see section 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Avoid spilling, skin and eye contact. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Do not handle broken packages without protective equipment.

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

Store in tightly closed original container in a dry, cool and well-ventilated place.

### **7.3. Specific end use(s)**

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

Usage Description

Gunnable sealant.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

Name	STD	TWA - 8 Hrs	STEL - 15 Min	Notes
HYDROGENATED TERPHENYL			0.5 ppm 4.8 mg/m <sup>3</sup>	

Ingredient Comments

WEL = Workplace Exposure Limits

No DNEL or PNEC limits available.

**8.2. Exposure controls**

Protective equipment



Engineering measures

Well-ventilated area.

Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand protection

Use protective gloves. CEN EN 420 - PVC.

Eye protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

Appearance	Uncured -paste. Cured - rubber.
Colour	Misc. colours.
Odour	Mercaptan
Solubility	Insoluble in water
Initial boiling point and boiling range	No data available for the product.
Melting point (°C)	No data available for the product.
Relative density	1.69 - 1.72 @20°C
Vapour density (air=1)	Not applicable.
Vapour pressure	Not applicable.
Evaporation rate	Not applicable.
Evaporation Factor	Not applicable.
pH-Value, Conc. Solution	Not applicable.
Viscosity	7, 000 - 14, 000 Ps @ 20°C
Solubility Value (G/100G H2O@20°C)	Not applicable.
Decomposition temperature (°C)	No data available for the product.
Odour Threshold, Lower	No data available for the product.
Odour Threshold, Upper	No data available for the product.
Flash point	Not applicable.
Auto Ignition Temperature (°C)	No data available for the product.
Flammability Limit - Lower(%)	No data available for the product.
Flammability Limit - Upper(%)	No data available for the product.
Partition Coefficient (N-Octanol/Water)	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.

**9.2. Other information**

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

# ARBOKOL AG1

No specific reactivity hazards associated with this product.

## **10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

## **10.3. Possibility of hazardous reactions**

Not relevant

Hazardous Polymerisation

Will not polymerise.

## **10.4. Conditions to avoid**

Avoid excessive heat for prolonged periods of time.

## **10.5. Incompatible materials**

Materials To Avoid

Strong oxidising substances.

## **10.6. Hazardous decomposition products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

Toxic Dose 1 - LD 50

Sodium peroxoborate: 890 - 1300 mg/kg (oral rat)

Toxic Dose 2 - LD 50                      Sodium peroxoborate: > 2000      mk/kg (dermal rabbit)

Toxic Conc. - LC 50

Sodium peroxoborate: >0.074 mg/l/4h (inh-rat)

Toxicological information

The product has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.

#### Skin Corrosion/Irritation:

Based on available data the classification criteria are not met.

#### Respiratory or skin sensitisation:

Based on available data the classification criteria are not met.

#### Germ cell mutagenicity:

Does not contain any substances known to be mutagenic.

#### Carcinogenicity:

Does not contain any substances known to be carcinogenic.

#### Reproductive Toxicity:

May damage the unborn child.

#### Aspiration hazard:

Not relevant, due to the form of the product.

Inhalation

Not relevant at normal room temperatures. When heated, toxic vapours may be formed.

Ingestion

May cause stomach pain or vomiting.

Skin contact

Prolonged and frequent contact may cause redness and irritation.

Eye contact

May cause irritation to eyes.

Specific effects

Contains a substance/a group of substances with possible risk of harm to the unborn child and with possible risk of impaired fertility.

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

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

**12.1. Toxicity**

LC 50, 96 Hrs, Fish mg/l                      Polysulphide polymer: 1000  
 EC 50, 48 Hrs, Daphnia, mg/l              Polysulphide polymer: 1160  
 Acute Toxicity - Microorganisms  
 EC50 Polysulphide polymer (17 hrs): 9290 mg/l (Pseudomonas putida)

**12.2. Persistence and degradability****Degradability**

Product contains: Polysulphide polymer: which is: Poorly biodegradable.

**12.3. Bioaccumulative potential****Bioaccumulative potential**

No data available on bioaccumulation.

Partition coefficient                      Not applicable.

**12.4. Mobility in soil****Mobility:**

The product is insoluble in water.

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

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements.

**Waste Class**

H6 - Toxic

H14 - Ecotoxic

Recommended EWC Code 08 04 09\*

**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**

No information required.

**14.2. UN proper shipping name**

No information required.

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

No information required.

**14.4. Packing group**

No information required.

**14.5. Environmental hazards****14.6. Special precautions for user**

No information required.

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

No information required.

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**SECTION 15: REGULATORY INFORMATION**


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

Uk Regulatory References

Chemicals (Hazard Information & Packaging) Regulations.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) 1907/2006 REACH. Regulation (EC) 1272/2008 CLP.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

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**SECTION 16: OTHER INFORMATION**


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Revision Comments

Revised sections: 2, 3, New format as required by REACH Annex II

Revision Date 02/01/13

Supersedes date 19/07/06

SDS No. 10207

Risk Phrases In Full

R8	Contact with combustible material may cause fire.
R22	Harmful if swallowed.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R37/38	Irritating to respiratory system and skin.
R37	Irritating to respiratory system.
R61	May cause harm to the unborn child.
R53	May cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R41	Risk of serious damage to eyes.

Hazard Statements In Full

H318	Causes serious eye damage.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
H335	May cause respiratory irritation.
H360Df	May damage the unborn child and suspected of damaging fertility.
H360D	May damage the unborn child.
H272	May intensify fire; oxidiser.

## 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 a 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.