SAFETY DATA SHEET
ARBOKOL 2150 BASE

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

1.1. Product identifier
Product name: ARBOKOL 2150 BASE

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Base component of: A two-part 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
Emergency telephone: (+44) 01773 826661 (office hours only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards: Not Classified
Health hazards: Not Classified
Environmental hazards: Aquatic Chronic 3 - H412

Human health: Not considered as a health hazard under current legislation.

2.2. Label elements
Hazard statements: H412 Harmful to aquatic life with long lasting effects.
Precautionary statements: P273 Avoid release to the environment.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures
ARBOKOL 2150 BASE

| LIQUID POLYSULPHIDE POLYMER with thiol end groups | 30-60% |
| (MW >1800) | |
| CAS number: 68611-50-7 | |

**Classification**
Aquatic Chronic 3 - H412

The full text for all hazard statements is displayed in Section 16.

**Composition comments**
Polysulphide polymer, with mineral 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**
Move affected person to fresh air at once. Get medical attention if any discomfort continues.

**Ingestion**
Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

**Skin contact**
Wipe off excess material with cloth or paper. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

**Eye contact**
Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. 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

**Inhalation**
No specific symptoms known.

**Ingestion**
May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact**
No specific symptoms known.

**Eye contact**
May cause temporary eye irritation.

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

**Notes for the doctor**
No specific recommendations.

**Specific treatments**
No specific recommendations.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media**
Extinguish with foam, carbon dioxide or dry powder. Water spray.

**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**
Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. No unusual fire or explosion hazards noted.

**Hazardous combustion products**
Toxic gases or vapours. Sulphurous gases (SOx).

### 5.3. Advice for firefighters
ARBOKOL 2150 BASE

Protective actions during firefighting
Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.

Special protective equipment for firefighters
Wear self contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions
Wear appropriate protective clothing. Follow precautions for safe handling described in this safety data sheet.

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
Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

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. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Usage precautions
Avoid spilling. Avoid contact with skin and eyes. Good personal hygiene procedures should be implemented.

7.2. Conditions for safe storage, including any incompatibilities
Storage precautions
Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class
Unspecified storage.

7.3. Specific end use(s)
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
Ingredient comments
No DNEL or PNEC values available.

8.2. Exposure controls
Protective equipment

Appropriate engineering controls
No specific ventilation requirements.

Eye/face protection
Not generally required.
ARBOKOL 2150 BASE

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Hygiene measures
Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Respiratory protection
Not normally required.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Paste</td>
</tr>
<tr>
<td>Colour</td>
<td>Off-white</td>
</tr>
<tr>
<td>Odour</td>
<td>Mercaptan</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>pH (concentrated solution): Not applicable.</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable. *C</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>Not applicable. °C @</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable. °C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Lower flammable/explosive limit: Not applicable. Upper flammable/explosive limit: Not applicable.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not applicable. @ °C</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Relative density</td>
<td>~ 1.55 @ 20°C</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Not applicable. @ °C</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable. *C</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Liquid polysulphide polymer decomposes at temperatures above 150 °C.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>12,000 - 15,000 P @ 20°C</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Explosive properties Not applicable.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not applicable. Explosive properties Not applicable.</td>
</tr>
</tbody>
</table>

9.2. Other information
None.

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
Not applicable. Will not polymerise.

10.4. Conditions to avoid
Conditions to avoid
Avoid excessive heat for prolonged periods of time. Liquid polysulphide polymer decomposes at temperatures above 150°C.

10.5. Incompatible materials
Materials to avoid

10.6. Hazardous decomposition products
Hazardous decomposition products

SECTION 11: Toxicological information

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

Acute toxicity - oral
Notes (oral LD₅₀)
Polysulphide polymer >5000 mg/kg (oral rat)

Acute toxicity - dermal
Notes (dermal LD₅₀)
Polysulphide polymer >7800 mg/kg (dermal rat)

Acute toxicity - inhalation
Notes (inhalation LC₅₀)
For this endpoint no toxicological data is available for the whole product.

Skin corrosion/irritation
Animal data
Based on available data the classification criteria are not met.

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

Respiratory 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
Does not contain any substances known to be carcinogenic.

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

Inhalation
No specific health hazards known.

Ingestion
No harmful effects expected from quantities likely to be ingested by accident.

Skin contact
Skin irritation should not occur when used as recommended.

Eye contact
May cause temporary eye irritation. Will not injure eye tissue.

SECTION 12: Ecological Information
ARBOKOL 2150 BASE

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

Acute toxicity - fish
LC₅₀, 96 hours: Liquid polysulphide polymer: 1000 mg/l, Algae

Acute toxicity - aquatic invertebrates
EC₅₀, 48 hours: Liquid polysulphide polymer: 1160 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability
No data available for the product. Polysulphide polymer 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

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
None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. May be mixed with curing agent component to give an inert polymeric material.

Waste class
H14 - Ecotoxic Recommended EWC Code 08 04 09*

SECTION 14: Transportation information

General
The product is not covered by international regulations 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
ARBOKOL 2150 BASE

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
No information required.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information required.

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 (as amended).
Regulation (EC) 1272/2008 CLP (as amended).

Guidance
Workplace Exposure Limits EH40.

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments
General review
Revision date 16/05/2017
Revision 2
Supersedes date 25/04/2017
SDS number 10064
Hazard statements in full H412 Harmful 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.