



## SAFETY DATA SHEET ARBO 2020 BASE

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

#### 1.1. Product identifier

**Product name** ARBO 2020 BASE

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

**Identified uses** Base component of: Construction joint sealant

**Uses advised against** No specific uses advised against are identified.

#### 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** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

**Environmental hazards** Aquatic Chronic 3 - H412

#### 2.2. Label elements

##### Pictogram



**Signal word** Warning

**Hazard statements** H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** P273 Avoid release to the environment.  
P280 Wear protective gloves.  
P280 Wear eye protection.  
P501 Dispose of contents/ container in accordance with national regulations.

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### Contains

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS, EPOXY RESIN (Number average MW <= 700 ), BISPHENOL F - EPICHLOROHYDRIN RESIN (number average MW <= 700), OXIRANE, MONO[(C10-16-ALKYLOXY)METHYL] DERIVS.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|   |              |
|---|--------------|
| <b>OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS</b>  | <b>5-10%</b> |
| CAS number: 68609-97-2  |              |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Skin Sens. 1 - H317  |              |
| <b>EPOXY RESIN (Number average MW &lt;= 700 )</b>   | <b>1-5%</b>  |
| CAS number: 25068-38-6                      EC number: 500-033-5  |              |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Eye Irrit. 2 - H319<br>Skin Sens. 1 - H317<br>Aquatic Chronic 2 - H411 |              |
| <b>BISPHENOL F - EPICHLOROHYDRIN RESIN (number average MW &lt;= 700)</b>  | <b>1-5%</b>  |
| CAS number: 28064-14-4  |              |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Eye Irrit. 2 - H319<br>Skin Sens. 1 - H317<br>Aquatic Chronic 2 - H411 |              |
| <b>3-GLYCIDOXYPROPYLTRIMETHOXYSILANE</b>  | <b>1-5%</b>  |
| CAS number: 2530-83-8                      EC number: 219-784-2   |              |
| <b>Classification</b><br>Eye Dam. 1 - H318  |              |

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|   |
|---|
| <b>OXIRANE, MONO[(C10-16-ALKYLOXY)METHYL] DERIVS.</b> <span style="float: right;"><b>&lt;1%</b></span>                  |
| CAS number: 68081-84-5  |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Eye Irrit. 2 - H319<br>Skin Sens. 1 - H317<br>Aquatic Chronic 2 - H411 |

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

**Composition comments**      Flexibilised liquid bisphenol A/F epoxy resin, with mineral fillers. and auxiliaries.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                   |   |
|-----------------------------------|---|
| <b>General information</b>        | Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.  |
| <b>Inhalation</b>                 | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.  |
| <b>Ingestion</b>                  | Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.   |
| <b>Skin contact</b>               | It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing. |
| <b>Eye contact</b>                | Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.   |
| <b>Protection of first aiders</b> | First aid personnel should wear appropriate protective equipment during any rescue.   |

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

|                            |   |
|----------------------------|---|
| <b>General information</b> | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| <b>Inhalation</b>          | No specific symptoms known.   |
| <b>Ingestion</b>           | May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.               |
| <b>Skin contact</b>        | May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.   |
| <b>Eye contact</b>         | Irritating to eyes.   |

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

**Notes for the doctor**      Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. |
| <b>Unsuitable extinguishing media</b> | Do not use water jet as an extinguisher, as this will spread the fire.   |

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

|                                      |   |
|--------------------------------------|---|
| <b>Specific hazards</b>              | None known.   |
| <b>Hazardous combustion products</b> | Thermal decomposition or combustion products may include the following substances:<br>Harmful gases or vapours. |

### 5.3. Advice for firefighters

|  |  |
|--|--|
| <b>Protective actions during firefighting</b>        | Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. |
| <b>Special protective equipment for firefighters</b> | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.   |

## SECTION 6: Accidental release measures

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

|                             |   |
|-----------------------------|---|
| <b>Personal precautions</b> | Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Avoid contact with skin and eyes. |
|-----------------------------|---|

### 6.2. Environmental precautions

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. |
|----------------------------------|---|

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

|                                |  |
|--------------------------------|--|
| <b>Methods for cleaning up</b> | Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13. |
|--------------------------------|--|

### 6.4. Reference to other sections

|                                    |   |
|------------------------------------|---|
| <b>Reference to other sections</b> | 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

|   |   |
|---|---|
| <b>Usage precautions</b>                      | Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers. |
| <b>Advice on general occupational hygiene</b> | Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.  |

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

|                            |  |
|----------------------------|--|
| <b>Storage precautions</b> | Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. |
|----------------------------|--|

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**Storage class** Miscellaneous hazardous material 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 / adhesive.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

**Ingredient comments** No exposure limits known for ingredient(s).

**Biological limit values** No DNEL or PNEC limits available.

### 8.2. Exposure controls

#### Protective equipment



**Appropriate engineering controls** Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

**Eye/face protection** Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**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. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

**Other skin and body protection** May cause skin sensitisation or allergic reactions in sensitive individuals. Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Hygiene measures** Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

**Respiratory protection** Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

**Environmental exposure controls** Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and Chemical Properties

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

**Appearance** Paste.

**Colour** Off-white.

**Odour** Mild.

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|   |   |
|---|---|
| <b>Odour threshold</b>                              | Not applicable.   |
| <b>pH</b>   | Not applicable.   |
| <b>Melting point</b>                                | Not applicable.   |
| <b>Initial boiling point and range</b>              | Not applicable.   |
| <b>Flash point</b>                                  | Not applicable.   |
| <b>Evaporation rate</b>                             | Not applicable.   |
| <b>Upper/lower flammability or explosive limits</b> | Not applicable.   |
| <b>Vapour pressure</b>                              | Not applicable.   |
| <b>Vapour density</b>                               | Not applicable.   |
| <b>Relative density</b>                             | ~ 1.5 @ 20°C  |
| <b>Solubility(ies)</b>                              | Insoluble in water.   |
| <b>Partition coefficient</b>                        | Not applicable.   |
| <b>Auto-ignition temperature</b>                    | Not applicable.   |
| <b>Decomposition Temperature</b>                    | Not determined.   |
| <b>Viscosity</b>                                    | 10,000 - 13,000 P @ 20°C  |
| <b>Explosive properties</b>                         | Not applicable.   |
| <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**                      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. Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions**      No potentially hazardous reactions known.

### 10.4. Conditions to avoid

**Conditions to avoid**                      There are no known conditions that are likely to result in a hazardous situation.

### 10.5. Incompatible materials

**Materials to avoid**                      No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products**      Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|  |   |
|--|---|
| <b>Toxicological effects</b>                                     | There are no data available on this product.  |
| <b><u>Acute toxicity - oral</u></b>                              |   |
| <b>Notes (oral LD<sub>50</sub>)</b>                              | Based on available data the classification criteria are not met.  |
| <b><u>Acute toxicity - dermal</u></b>                            |   |
| <b>Notes (dermal LD<sub>50</sub>)</b>                            | Based on available data the classification criteria are not met.  |
| <b><u>Acute toxicity - inhalation</u></b>                        |   |
| <b>Notes (inhalation LC<sub>50</sub>)</b>                        | Based on available data the classification criteria are not met.  |
| <b><u>Skin corrosion/irritation</u></b>                          |   |
| <b>Animal data</b>   | Irritating.   |
| <b><u>Serious eye damage/irritation</u></b>                      |   |
| <b>Serious eye damage/irritation</b>                             | Causes serious eye irritation.  |
| <b><u>Respiratory sensitisation</u></b>                          |   |
| <b>Respiratory sensitisation</b>                                 | Based on available data the classification criteria are not met.  |
| <b><u>Skin sensitisation</u></b>                                 |   |
| <b>Skin sensitisation</b>  | May cause skin sensitisation or allergic reactions in sensitive individuals.                                |
| <b><u>Germ cell mutagenicity</u></b>                             |   |
| <b>Genotoxicity - in vitro</b>                                   | Based on available data the classification criteria are not met.  |
| <b><u>Carcinogenicity</u></b>                                    |   |
| <b>Carcinogenicity</b>   | Based on available data the classification criteria are not met.  |
| <b>IARC carcinogenicity</b>                                      | None of the ingredients are listed or exempt.   |
| <b><u>Reproductive toxicity</u></b>                              |   |
| <b>Reproductive toxicity - fertility</b>                         | Based on available data the classification criteria are not met.  |
| <b>Reproductive toxicity - development</b>                       | Based on available data the classification criteria are not met.  |
| <b><u>Specific target organ toxicity - single exposure</u></b>   |   |
| <b>STOT - single exposure</b>                                    | Not classified as a specific target organ toxicant after a single exposure.                                 |
| <b><u>Specific target organ toxicity - repeated exposure</u></b> |   |
| <b>STOT - repeated exposure</b>                                  | Not classified as a specific target organ toxicant after repeated exposure.                                 |
| <b><u>Aspiration hazard</u></b>                                  |   |
| <b>Aspiration hazard</b>   | Not relevant. Solid.  |
| <b>General information</b>                                       |   |
|  | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| <b>Inhalation</b>  | No specific symptoms known.   |
| <b>Ingestion</b>   | May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.               |
| <b>Skin contact</b>  | May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.   |
| <b>Eye contact</b>   | Irritating to eyes.   |

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|   |  |
|---|--|
| <b>Acute and chronic health hazards</b> | Mild dermatitis, allergic skin rash. Defatting, drying and cracking of skin. |
| <b>Route of entry</b>                   | Ingestion Inhalation Skin and/or eye contact                                 |
| <b>Target organs</b>                    | No specific target organs known.   |
| <b>Medical considerations</b>           | Skin disorders and allergies.  |

### SECTION 12: Ecological Information

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

#### 12.1. Toxicity

**Toxicity** Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

#### 12.3. Bioaccumulative potential

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

**Partition coefficient** Not applicable.

#### 12.4. Mobility in soil

**Mobility** No data available.

#### 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** The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Disposal methods** Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

**Waste class** H4 - Irritant H13 - Sensitising H14 - Ecotoxic Recommended EWC Code 08 04 09\*

### SECTION 14: Transport information

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

#### 14.1. UN number



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No information required.

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

No information required.

### 14.4. Packing group

No information required.

### 14.5. Environmental hazards

#### **Environmentally hazardous substance/marine pollutant**

No information required.

### 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

|                       |  |
|-----------------------|--|
| <b>EU legislation</b> | Regulation (EC) 1907/2006 REACH (as amended).<br>Regulation (EC) 1272/2008 CLP (as amended). |
| <b>Guidance</b>       | Workplace Exposure Limits EH40.  |

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

##### **EU - EINECS/ELINCS**

None of the ingredients are listed or exempt.

## SECTION 16: Other information

|   |   |
|---|---|
| <b>Classification procedures according to Regulation (EC) 1272/2008</b> | Skin Irrit. 2 - H315: Eye Irrit. 2 - H319: Skin Sens. 1 - H317: : Calculation method. Aquatic Chronic 3 - H412: : Calculation method.   |
| <b>Revision comments</b>  | General review  |
| <b>Revision date</b>  | 02/06/2017  |
| <b>Revision</b>   | 1   |
| <b>Supersedes date</b>  | 13/01/2017  |
| <b>SDS number</b>   | 10187   |
| <b>Hazard statements in full</b>  | H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H319 Causes serious eye irritation.<br>H411 Toxic to aquatic life with long lasting effects.<br>H412 Harmful to aquatic life with long lasting effects. |

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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.